

BEFORE THE ARIZONA CORPORATION RECEIVED

3 **COMMISSIONERS** JEFF HATCH-MILLER - Chairman

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KRISTIN K. MAYES

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IN THE MATTER OF THE APPLICATION OF PINEVIEW WATER COMPANY, INC., FOR 10

AUTHORITY TO ISSUE PROMISSORY NOTE(S) AND OTHER EVIDENCES OF INDEBTEDNESS PAYABLE AT PERIODS OF MORE THAN TWELVE MONTHS AFTER

12 THE DATE OF ISSUANCE. DOCKET NO. W-01676A-04-0463

IN THE MATTER OF THE APPLICATION OF PINEVIEW WATER COMPANY, INC. FOR AN INCREASE IN ITS WATER RATES FOR CUSTOMERS WITHIN NAVAJO COUNTY. ARIZONA.

DOCKET NO. W-01676A-04-0500

NOTICE OF FILING DIRECT **TESTIMONY**

The Utilities Division ("Staff") of the Arizona Corporation Commission hereby provides notice that it has filed the Direct Testimony of Elena Zestrijan, Alejandro Ramirez, Dorothy Hains and James Johnson in the above-referenced matter. Counsel for Pineview Water Company, Inc. granted Staff a one-day extension to file its Direct Testimony.

RESPECTFULLY SUBMITTED this 21st day of January 2005.

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Timothy J. Sabo Diane M. Targovnik Attorneys, Legal Division Arizona Corporation Commission 1200 West Washington Street Phoenix, Arizona 85007 (602) 542-3402

1	The original and fifteen (15) copies of the foregoing were filed this
2	21 st day of January 2005 with:
3	Docket Control Arizona Corporation Commission
4	1200 West Washington Street Phoenix, Arizona 85007
5	Copies of the foregoing were mailed this
6	21 st day of January 2005 to:
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DIRECT

TESTIMONY

OF

ELENA ZESTRIJAN

ALEJANDRO RAMIREZ

JAMES H. JOHNSON

DOROTHY HAINS

DOCKET NOS. W-01676A-04-0500 AND W-01676A-04-0463

IN THE MATTER OF THE APPLICATIONS OF PINEVIEW WATER COMPANY, INC. FOR A RATE INCREASE AND FINANCING

ZESTRIJAN

BEFORE THE ARIZONA CORPORATION COMMISSION

JEFF HATCH-MILLER		
Chairman		
WILLIAM A. MUNDELL		
Commissioner		
MARC SPITZER		
Commissioner		
MIKE GLEASON		
Commissioner		
KRISTIN K. MAYES		
Commissioner		
IN THE MATTER OF THE APPLICATIONS OF)	
PINEVIEW WATER COMPANY, INC.)	DOCKET NO. W-01676A-04-0463
FOR AN INCREASE IN ITS WATER RATES	j	DOCKET NO. W-01676A-04-0500
FOR CUSTOMERS WITHIN NAVAIO COUNTY	Ś	

DIRECT

TESTIMONY

OF

ELENA ZESTRIJAN

PUBLIC UTILITIES ANALYST III

UTILITIES DIVISION

ARIZONA CORPORATION COMMISSION

JANUARY 20, 2005

ARIZONA AND FOR APPROVAL OF A

FINANCING REQUEST.

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EXECUTIVE SUMMARY PINEVIEW WATER COMPANY, INC. DOCKET NO. W-01676A-04-0463 AND W-01676A-04-0500

Pineview Water Company, Inc. ("Pineview" or "Company") is an Arizona public service corporation engaged in providing water utility services in a portion of Navajo County, Arizona, pursuant to certificates of convenience and necessity granted by the Arizona Corporation Commission to Pineview. At the present time Pineview provides utility service to approximately 918 customers within its certificated area located southeast of Show Low, Arizona. Pineview's previous rate case was based on a test year ended December 31, 1994.

The Company proposes an increase in revenues of \$126,453, or 24.19 percent, on an original cost rate base ("OCRB") of \$730,084, for a rate of return of 10.51 percent. This would increase the typical residential bill having a median usage of 3,250 gallons from \$27.60 to \$33.54, for an increase of \$5.94 or 21.50 percent.

Staff recommends an increase in revenue of \$15,495 or 2.96 percent, on an OCRB of \$662,093 for a 7.20 percent rate of return. Due to the Staff's recommended three-tier rates, the typical residential bill having a median usage of 3,250 gallons will decrease from \$27.60 to \$26.97, for a decrease of \$.63 or 2.30 percent.

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INTRODUCTION

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Please state your name and business address. Q.

Phoenix, Arizona 85007.

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Q. By whom are you employed and in what capacity?

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I am employed by the Arizona Corporation Commission ("Commission" or "ACC") as a A. Public Utilities Analyst III.

My name is Elena Zestrijan. My business address is 1200 West Washington Street,

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Q. Please describe your work experience.

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I completed my education in accounting at Remington Rand Business College, South A. Melbourne, Australia and began my accounting career in 1968. In 1978, I was hired by the Phoenix Newspapers, Inc. in the capacity of Budget/Financial Analyst until March of 2000. My responsibilities included coordination of annual operating budgets/forecasts, capital expenditures. quarterly projections/revisions, monthly budget/history commentary/analysis, quarterly Board of Director's schedules. I also participated in the implementation of two budget systems.

On September 18, 2000, I joined the Financial and Regulatory Analysis Section within the Utilities Division ("Staff") of the Commission. My duties include review and analysis of financial records and other documents of regulated utilities for accuracy, consistency, completeness, and reasonableness. I also prepare work papers and schedules supporting expert testimony and Staff reports in connection with utility applications for changes in rates.

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PURPOSE OF TESTIMONY

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BACKGROUND 15

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The purpose of my testimony in this proceeding is to present Staff's analysis and A.

What is the purpose of your testimony in this proceeding?

recommendations concerning the original cost rate base ("OCRB"), revenue requirement, and rate design regarding the Pineview Water Company, Inc's. ("Pineview" or "Company") rate increase application received on July 9, 2004.

Are you Staff's only witness? Q.

No, there are three other Staff witnesses. Mr. Alejandro Ramirez is presenting Staff's cost A. of capital testimony. Mr. James Johnson is presenting Staff's recommendations regarding the Company's authorization to issue long-term debt. Ms. Dorothy Hains is presenting Staff's engineering analysis, inspection and evaluation of the Company's water systems.

Please provide a brief description of Pineview and the services it provides. Q.

A. Pineview is an Arizona public service corporation, supplying potable water service to approximately 918 customers in Navajo County, Arizona.

Pineview's current rates were approved in Decision No. 59934, dated December 16, 1996, and went into effect on December 1, 1996. Pineview is using a test year ending December 31, 2003, in this proceeding.

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SUMMARY OF TESTIMONY AND RECOMMENDATIONS

Q. Please summarize the Company's proposals and Staff's recommendations.

A. The Company's rate application proposes an increase in revenues of \$126,453 from the test year adjusted amount of \$522,724, or a 24.19 percent increase over its test year revenue as shown in Schedule ENZ-1.

Staff is recommending an increase in revenues of \$15,495 from the test year adjusted amount of \$522,724, or a 2.96 percent increase over the test year revenue as shown in schedule ENZ-1.

The Company proposes a rate of return of 10.51 percent on an OCRB of \$730,084. Staff recommends a rate of return of 7.20 percent on Staff's recommended OCRB of \$662,093. The 7.20 rate of return is based on the testimony of Staff's witness, Mr. Ramirez.

Q. What is the basis of Staff's recommendations?

Staff performed a regulatory audit of the Company's books and records to determine whether sufficient evidence exists to support the Company's request for an increase in its rates and charges. The regulatory audit consisted of examining and testing the Company's accounting ledgers and reports, checking the accumulation of amounts in the records, tracing recorded amounts to source documents, verifying the correct application of data with applicable standards of third parties, and verifying whether the accounting principles applied are in accordance with the Commission-authorized National Association of Regulatory Utility Commissioners ("NARUC") Uniform System of Accounts ("USOA"). In preparing its case, Staff visited the office of Pineview, to conduct the audit. Staff also reviewed previous rate and other Commission Decisions applicable to this Company. Staff held

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data.

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Q. What test year was used by the Company in this filing?

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A. Pineview used a historical test year covering the twelve months ending December 31, 2003.

discussions with Company representatives and composed a number of written requests for

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Q. Did Staff accept the test year as filed by the Company?

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A. Yes. The December 31, 2003, test year selected was a 12-month period, which was recent enough for purposes of preparing the rate case filing. The Company chose not to include pro forma plant, but included revenue and expense adjustments. Staff evaluated and either

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accepted, adjusted, or removed the Company's adjustments.

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Q. What test year was used by the Company in this filing?

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A. Pineview used a historical test year covering the twelve months ending December 31, 2003.

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Q. Did Staff's audit reveal any concerns about commingling?

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Yes. Staff discovered numerous instances where there were inappropriate transactions with other affiliates of Pineview, or with members of the Sutter family (which controls

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Pineview). These problems are described in the testimony that follows. This pattern of

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behavior is not new. In Pineview's last rate Order the Commission observed that: "Staff's

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audit identified a number of questionable transactions between Pineview and construction

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companies owned by the Sutter family. There appears to be an inter-mingling of Pineview's operations" Decision No. 59934, page 4. Staff is concerned that, 8 years later, these

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problems continue.

In addition to its water company operations, the owners also conduct other non-water company related business activities. In Commission Decision No. 59934, the Company was authorized to borrow funds to acquire a backhoe. In the Company's current application the plant in service includes the acquired backhoe and an additional lease expense for another backhoe. Staff is aware that the Sutter's also own a heavy equipment rental business. Staff was unable to determine if the backhoe acquired by Pineview is being used exclusively by Pineview or otherwise utilized to generate revenues for an equipment leasing business operated by the same owners. Staff recommends that the Company be required to maintain written documentation describing the actual use of the Company owned backhoe. Staff disallowed the lease expense for a second backhoe.

Staff also noted that the Sutters appear on the Pineview's payroll. Staff requested detailed information on the positions and responsibilities held by the Sutters only to confirm that the Sutter's involvement in the water company is minimal. The Company's responses to Staff's data requests confirms that Mr. and Mrs. Sutter travel together to promote land development which supports another business they own.

Accordingly, Staff recommends that the Commission order that Pineview cease and desist from further commingling of expenses and capital equipment. Staff further recommends that the Commission order; 1) mandatory training for equipment operators, 2) requirement for Commission approval of all further transactions with affiliates or members of the Sutter family pursuant to R14-2-804, 3) shall maintain written usage reports for its Transportation and Power Operated Equipment. 4)¹ Such records will include the date, time of use or

¹ See National Association of Regulatory Commissioners Uniform System of Accounts for Transportation (Account 341) and Power Operated Equipment (account 345)

Direct Testimony of Elena Zestrijan Docket No. W-01676A-04-0463 and W-01676A-04-0500 Page 6 mileage and the purpose of the equipment usage. 5) Require Pineview file a new rate case 2 within 3 years. 3 Staff further recommends that the Company and its owners be ordered to eliminate the 4 5 commingling of expenses and capital equipment that the Commission discussed in Decision 6 No. 59934 and continues today to the detriment of ratepayers. 7 **ORIGINAL COST RATE BASE** 8 9 Q. Has Staff prepared a schedule detailing the Company's proposed OCRB and Staff's 10 recommended OCRB? Yes. Schedule ENZ-3 shows the Company's proposed OCRB and Staff's recommended 11 A. 12 OCRB. 13 14 Is Staff recommending any changes to the Company's proposed OCRB? Q. 15 Yes. The Company proposed an OCRB of \$730,084. Staff recommends an OCRB of A. \$662,093, or a net reduction of \$67,991. Staff's specific adjustments are outlined later in 16 17 this section. 18 19 Did the Company prepare a schedule of reconstruction cost new less depreciation Q. ("RCND") rate base? 20 21 No. The Company did not file RCND rate base schedules. Α. 22 23 What is the Company's fair value rate base ("FVRB")? Q. 24 A. Since no RCND schedules were filed, the Company's FVRB is equal to its OCRB. 25

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PLANT IN SERVICE

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Q. Please outline your adjustments to plant in service.

Schedules ENZ-3 and ENZ-5.

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ACCUMULATED DEPRECIATION

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Please explain Staff's adjustment to plant in service.

A. The adjustment to reduce plant in service by \$61,549 represents the total of numerous adjustments in various categories as outlined on schedule ENZ-5. Staff removed land purchased and a storage tank that are not used or useful. Staff further removed remodeling of office space rented from Katherine Sutter. Staff also removed a truck the Company sold, a 1979 Ford truck not used or useful. Staff added two GMC trucks leased from Henry Sutter, although the loans are paid by the Company. Staff further reclassified a touchreader from operating expense to plant.

Staff's adjustments to plant in service resulted in a decrease of \$61,549 as shown on

The controller but the children

Q. Please explain Staff's adjustment to accumulated depreciation.

A. Staff recommends accumulated depreciation of \$1,091,936, a \$17,305 decrease to the Company-proposed amount of \$1,109,241, as shown on Schedules ENZ -3 and ENZ-6.

Staff calculated accumulated depreciation by adding depreciation expense for the intervening years to the Commission-approved balance of December 31, 1994, which was the test year in the prior rate case. Staff's accumulated depreciation calculation resulted in a decrease to accumulated depreciation of \$17,305.

Direct Testimony of Elena Zestrijan Docket No. W-01676A-04-0463 and W-01676A-04-0500 Page 8 CONTRIBUTIONS IN AID OF CONSTRUCTION ("CIAC") Please explain Staff's adjustment to CIAC. Q. Staff's adjustment of \$622 is to record actual CIAC amount of \$15,334. Company's A. application as submitted reflected net CIAC amount of \$14,712 as shown on schedule ENZ-7. CIAC ACCUMULATED AMORTIZATION 0. Please explain Staff's adjustment to CIAC accumulated amortization. A. Staff's adjustment of \$622 is to record CIAC accumulated amortization of \$622, as shown on schedule ENZ-8. **CUSTOMER DEPOSITS** Q. Please explain Staff's adjustment of \$7,769 to customer deposits. A. Staff's analysis of Company's general ledger, discovered that the Company omitted customer deposits from its application. Staff's adjustment of \$7,769 is to record customer deposits as shown on schedule ENZ-9. **METER ADVANCES**

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- 0. Please explain Staff's adjustment to meter advances.
- Staff's adjustment of \$15,978, is to record meter advances difference between Company's A. application and its general ledger/balance sheet as shown on schedule ENZ-10.

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OPERATING REVENUE

- Q. Did Staff prepare a schedule showing the Company's proposed test year revenue and Staff's recommended test year revenue?
- A. Yes. This information is found on Schedule ENZ-11.

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Q. Has Staff recommended any changes to the Company's test year operating revenue?

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A. No. Staff concurs with the Company's revenue as filed.

OPERATING EXPENSES

What is the Company's proposed operating expenses and Staff's recommended operating expenses?

A. This information is found on Schedule ENZ-11. The Company claimed expenses of \$542,950. Staff is recommending operating expenses of \$487,306, or a \$55,644 decrease. Staff's recommended changes are detailed below.

Q. Please discuss Staff's \$47,015 adjustment to reduce salaries and wages.

A. Staff's disallowance in salaries and wages is based on information received during Staff's audit visit at the Company office and Company responses to Staff's data requests. The application includes salaries for (1) Mr. Henry Sutter of \$3,000 per month for 11 months amounting to \$33,000, (2) Mrs. Katherine Sutter of \$3,000 per month for 11 months amounting to \$33,000, (3) Ms. Mandy Sutter of \$240 per week for 53 weeks, amounting to \$12,720, and (4) Taren Sutter 5 weeks at \$440 per week amounting to \$2,200, for a total of \$80,920. Staff removed these amounts as unnecessary for the Company to provide service. Staff added director's fees of \$150 per month for Henry, Katherine and Mandy Sutter, amounting to \$5,400 for 12 months. Mr. Ron McDonald joined the Company in the capacity of Operations Manager. With the help of several other positions listed below, the Company is fully staffed and appears to be well managed. Staff's audit visit confirms that there is no physical appearance and miniscule involvement of any members of the Sutter family. No office space is available for any additional personnel including any of the

Sutters. It was also confirmed that Mr. Henry Sutter travels within Arizona, parts of New

Mexico, Colorado, Nevada and California promoting land development. It was explained to

 Staff that land development promotion will incidentally bring additional water customers. Such expenses are not reasonably chargeable to the water customers in this system. Staff believes that promoting land development is in the best interest of the Land Development and Investment Company, located at the same address in a separate building behind Pineview's building and owned by the Sutter family.

Staff's recommendation for salaries is based upon position descriptions for each employee. Positions included are as follows: General Manager, Staff Accountant, Customer Service/Billing Clerk, Senior Serviceman, Operations Superintendent and Site Project/Inspection Manager. Please see Schedule ENZ-13 for more details.

Q. Please explain Staff's \$7,557 adjustment to reduce employee pension and benefits.

A. Staff's calculation is based on the Company's benefits percentage as submitted by the Company, and salaries adjusted by Staff as previously described.

Q. Please explain Staff's \$3,441 adjustment to purchased power.

A. Staff reduced purchased power by \$3,441. Reduction is based on the Company's e-mail response of November 22, 2004 responding to Staff's e-mail request for information. The response showed purchased power breakdown by location totaling to \$39,512, so Staff reduced the Company's application amount of \$42,953. See schedule ENZ-15.

Q. Please explain Staff's \$7,017 adjustment to repairs and supplies expense.

A. Staff's reduction includes reclassification of \$1,089 to transportation expense for the repairs related to the two 2001 GMC trucks. Staff also removed a septic clean up in the amount of \$350 charged twice. Staff also removed \$5,578 pertaining to heavy equipment repairs. The receipts and invoices Staff audited, were not specific on which piece of equipment any

particular repairs applied to and Staff could not determine if the repairs were for Pineview's one backhoe.

- Q. Please explain Staff's \$3,157 adjustment to contractual services expense.
- A. Please refer to Ms. Hains' testimony at page 23 for a breakdown and explanation of this adjustment. This adjustment is detailed on schedule ENZ-17.
- Q. Please explain Staff's \$37,468 adjustment to rent expense.
- A. Staff removed leases for two GMC trucks, in the amount of \$14,400. Staff reclassified these trucks to plant in service. Staff also removed the heavy equipment lease entirely. Based on Decision No. 59934 dated December 18, 1996, the newest backhoe is included in the plant in service, therefore, the Company owns and utilizes this backhoe and has no need to rent this or other heavy equipment. Staff also removed rent expense of \$5,069 for unsubstantiated expenses, such as checks issued directly to Henry Sutter for the lease of a 1979 truck that is not used or useful, and installation of a toolbox. This adjustment is shown on schedule ENZ-18.
- Q. What adjustments did Staff make to the Company's miscellaneous expense?
- A. These adjustments are shown on schedule ENZ-21 and briefly described below.
- Q. Please explain Staff's \$1,152 adjustment to office supplies and expense.
- A. Staff removed uniform service expense, as it is no longer used (\$1,152). Staff verified this during its on-site visit.

O. Please explain Staff's adjustment to transportation expense.

A. Staff's adjustments include an addition of \$1,089, for the reclassification from the repairs and maintenance category related to the two 2001 GMC trucks. Staff also removed Henry Sutter's fuel expense amounting to \$480, for mileage unrelated to the Company. Staff also removed an unsubstantiated \$79 fuel expense, and fuel expenses of \$530 for the 1979 Ford, which is not used or useful. The positive adjustment was offset by the negative adjustments, so that there was no net adjustment to this expense category. See schedule ENZ-20.

Q. Please explain Staff's \$311 adjustment to postage and freight expense.

A. Mercon, Inc. is a construction company owned by the Sutter Family. See Decision No. 59934 at page 4. Staff removed Mercon postage and freight (\$311) paid with Pineview's funds, for this other Sutter family business.

Q. Please explain Staff's \$1,994 adjustment to telephone expense.

A. Staff adjusted telephone expense to reflect going-forward actual expenses only of 2 land lines, fax line, 4 cellular phones and a long distance carrier. The \$1,994 adjustment represents landlines and cell phones which are no longer needed to conduct utility business. Staff's adjustment is based on actual bills, invoices and discussion with Company manager during Staff's audit visit.

Q. Please explain Staff's \$422 adjustment to materials and supplies expense.

A. Staff reclassified a purchase of a touchreader (\$422) to plant in service.

Q. Please explain Staff's \$8,347 adjustment to bad debt expense.

A. Staff adjusted bad debt expense to reflect the average of four years of written-off uncollected receivables.

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- Q. Please summarize Staff's adjustment to miscellaneous expense.
- A. Transportation expense combined adjustments equal zero. Office supplies and expense adjustments equal a reduction of \$1.152. Postage and freight adjustments equal a reduction of \$311. Telephone expense adjustment equals a reduction of \$1,994. Bad debt **expense** adjustment equals a reduction of \$8,347.

Staff noted that the Company is consolidating too many expense accounts into the miscellaneous expense. Staff recommends that the Company be ordered that, in the future, it keeps all information at the detail level in accordance with the NARUC USOA. Staff's testimony reflects all adjustments made to the respective categories.

Staff recommends that the Company be required that, in the future, it keeps all information at the detail level specified by the NARUC USOA. The Company should be ordered to file an affidavit within 120 days of the effective date of this Order, in this docket attesting to its completion of altering its accounting system to be in compliance with the NARUC USOA.

- Q. Please summarize Staff's adjustment to increase depreciation expense.
- A. Staff calculated depreciation expense on a going-forward basis using the recommended depreciation rates as shown in Section J of the Engineering Report. This resulted in an increase in depreciation expense of \$38,362. This adjustment is shown on schedule ENZ-22.
- Please explain Staff's adjustment to property tax expense. Q.
- Staff's adjustment in the amount of \$370 is an increase due to Staff's audit findings A. increasing operating income in the test year. This adjustment is shown on schedule ENZ-23.

Please explain Staff's adjustment to federal and state income tax expense.

Staff's adjustment of \$17,191 increases federal and state income tax due to Staff's audit

findings increasing operating income in the test year. This adjustment is shown on schedule

What is the Company's proposed revenue requirement and Staff's recommended

The Company's proposed rates produce operating revenues of \$649,177 and operating

Staff's recommended rates result in operating revenues of \$538,219 and operating income of

Did Staff prepare a schedule summarizing its recommended revenue requirement?

income of \$76,695 or a 10.51 percent rate of return on an OCRB of \$730,084.

\$47,671 for a 7.20 percent rate of return on an OCRB of \$662,093.

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Q. A.

ENZ-24.

REVENUE REQUIREMENT

revenue requirement?

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RATE DESIGN

Q. Please explain Staff's recommended rate design.

Yes. Please refer to Schedule ENZ-1.

A. Staff's recommended rates produce a revenue level of \$538,219. This represents an increase of \$15,495 from adjusted test year revenues of \$522,724. However, due to Staff's recommended three-tier rates, the typical residential bill having a median usage of 3,250 gallons will decrease from \$27.60 to \$26.97 for a decrease of \$.63, or 2.30 percent.

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The present rate design consists of a single-tier commodity rate and the Company's proposed rates consist of three tiers for all classes of customers.

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The residential customer class consumed 76 percent of the total water sold. Consequently, Staff recommended a three-tier rate structure and is designed for the usage of residential and commercial customers. This is compatible with water conservation efforts. Staff's recommended rates are shown on schedule ENZ-25.

The first tier-break at 3,000 gallons applies to 100 percent of the residential customers. The second-tier break at 20,000 gallons applies to 80 percent of the residential customers. The third-tier break is in excess of 20,000 gallons and applies to 20 percent of the residential customers.

ARSENIC REMOVAL

FINANCING

- Q. Does the Company have an arsenic problem?
- A. No. (See Ms. Hains' testimony).

Q. Has the Company filed a financing application?

A. Yes. (See Mr. Johnson's testimony).

STAFF RECOMMENDATIONS

- Q. Please summarize Staff's recommendations.
- A. Staff recommends approval of its rates and charges as depicted on Schedule ENZ 25.
 - Staff further recommends a 7.20 percent rate of return on Staff's recommended FVRB of \$662,093.

Staff further recommends that the Company and its owners be ordered to eliminate the commingling of expenses and capital equipment that the Commission discussed in Decision No. 59934 and continues today to the detriment of ratepayers.

Staff recommends that the Company be required to maintain written documentation describing the actual use of the Company owned backhoe.

Staff recommends that the Commission order that Pineview cease and desist from further commingling of expenses and capital equipment. Staff further recommends that the Commission order; 1) mandatory training for equipment operators, 2) requirement for a Commission approval of all further transactions with affiliates or members of the Sutter family pursuant to R14-2-804, 3) shall maintain written usage reports for its Transportation and Power Operated Equipment. 4)¹ Such records will include the date, time of use or mileage and the purpose of the equipment usage. 5) Require Pineview to file a new rate case within 3 years, of the effective date of the Order in this proceeding.

Staff further recommends that Pineview, be ordered to use the individual depreciation rates as shown in Exhibit 6 of the Engineering Report.

Staff recommends that the Company be required that, in the future, it keeps all information at the detail level specified by the NARUC USOA. The Company should be ordered to file an affidavit within 120 days of the effective date of this Order, in this docket attesting to its completion of altering its accounting system to be in compliance with the NARUC USOA.

See National Association of Regulatory Commissioners Uniform System of Accounts for Transportation (Account 341) and Power Operated Equipment (account 345)

Staff further recommends a provision be included in the Company's tariff to allow for the flow-through of all appropriate state and local taxes as provided for in Arizona Administrative Code Rule 14-2-409(D)(5).

- Q. Does this conclude your direct testimony?
- A. Yes, it does.

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REVENUE REQUIREMENT

LINE <u>NO.</u>	<u>DESCRIPTION</u>	_	[A] COMPANY DRIGINAL COST	[B] STAFF ORIGINAL <u>COST</u>		
1	Adjusted Rate Base	\$	730,084	\$	662,093	
2	Adjusted Operating Income (Loss)	\$	(20,226)	\$	35,418	
3	Current Rate of Return (L2 / L1)		-2.77%		5.35%	
4	Required Rate of Return		10.51%		7.20%	
5	Required Operating Income (L4 * L1)	\$	76,695	\$	47,671	
6	Operating Income Deficiency (L5 - L2)	\$	96,921	\$	12,253	
7	Gross Revenue Conversion Factor		1.30470		1.26459	
8	Increase In Gross Revenue (L7 * L6)	\$	126,453	\$	15,495	
9	Adjusted Test Year Revenue	\$	522,724	\$	522,724	
10	Proposed Annual Revenue (L8 + L9)	\$	649,177	\$	538,219	
11	Required Increase in Revenue (%) (L8/L9)		24.19%		2.96%	

GROSS REVENUE	CONVERSION FACTO	OR
ine		
<u>lo.</u>		
Calculation of Gross Revenue Conversion Factor:		
Recommended Revenue Increase:		4 000000
2 Billings	00.000000	1.000000
3 Combined Federal and State Income Tax Rate	20.92280%	
Uncollectible Rate After Income Taxes Total Tax Rate	0.00000%	20 022900/
6 Gross Revenue Conversion Factor	-	20.92280% 1.264587
U Gloss Neverlue Conversion Factor	=	1.204307
Calculation of Effective Income Tax Rate:		
7 Operating Income Before Taxes (Arizona Taxable Income)	100.00000%	
8 Arizona State Income Tax Rate	6.96800%	
9 Federal Taxable Income (L7 - L8)	93.03200%	
10 Applicable Federal Income Tax Rate (Line 36)	15.00000%	
11 Effective Federal Income Tax Rate (L9 x L10)	13.95480%	
12 Combined Federal and State Income Tax Rate (L8 +L11)	20.92280%	
<u>Calculation of Uncollectible Rate After Income Taxes:</u> 13 Uncollectible Rate		0.000000/
14 Combined Federal and State Income Tax Rate	20.92280%	0.00000%
15 1 minus Combined Federal and State Income Tax Rate	20.92200%	79.07720%
16 Uncollectible Rate After Income Taxes	-	0.00000%
Revenue Reconciliation: 17 Recommended Increase in Revenue (from ENZ-1, L8) 18 Uncollectible Rate 19 Required Increase in Revenue to Provide for Uncollectibles 20 Recommended Increase in Revenue (from ENZ-1,L8) 21 Required Increase in Revenue to Provide for Uncollectibles 22 Incremental Taxable Income 23 Combined Federal and State Income Tax Rate 24 Required Increase in Revenue to Provide for Income Taxes	\$ 15,495 0.000000% \$ 15,495 - \$ 15,495 20.92280%	\$ -
25 Required Operating Income	\$ 47,671	
26 Adjusted Test Year Operating Income (Loss)	35,418	
27 Required Increase in Operating Income		12,253
28 Total Required Increase/Decrease In Revenue	- -	\$ 15,495
Calculation of Income Tax:	Test Year	
29 Revenue	\$ 522.724	

Calculation of Income Tax:	T	est Year				STAFF nmended		
29 Revenue	<u> </u>	522.724	l		\$	538,219		
30 Less: Operating Expenses Excluding Income Taxes	\$	482,665	!		\$	482,665		
31 Less: Synchronized Interest	\$	17,877			\$	17,877		
32 Arizona Taxable Income	\$	22,182	•		\$	37,677	•	
33 Arizona State Income Tax Rate		6.968%				6.968%		
34 Arizona Income Tax			\$	1,546			\$	2,625
35 Federal Taxable Income	\$	20,637			\$	35,052		
36 Federal Income Tax @ 15%			\$	3,095			\$	5,258
37 Combined Federal and State Income Tax			\$	4,641			\$	7,883
					-			
					S	3 242		

Calculation	of Interest	Synchronization:

39 Weighted Average Cost of Debt 40 Synchronized Interest

\$ 662,093
2.700%
\$ 17,877

RATE BASE - ORIGINAL COST

LINE <u>NO.</u>		(A) COMPANY AS FILED	(B) STAFF ADJUSTMENTS	(C) STAFF AS ADJUSTED
1 2 3	Plant in Service Less: Accumulated Depreciation Net Plant in Service	\$ 2,162,941 (1,109,241) \$ 1,053,700	\$ (61,549) \$ 17,305 \$ (44,244)	\$ 2,101,392 (1,091,936) \$ 1,009,456
	<u>LESS:</u>			
4	Advances in Aid of Construction (AIAC)	(243,473)	-	(243,473)
5 6 7	Contributions in Aid of Construction (CIAC) Less: Accumulated Amortization Net CIAC	\$ (14,712) - (14,712)	\$ (622) 622	\$ (15,334) 622 (14,712)
8	Total Advances and Contributions	(258,185)	-	(258,185)
9	Customer Deposits	-	(7,769)	(7,769)
10	Meter Advances	(72,414)	(15,978)	(88,392)
11	Deferred Income Tax Credits	-	-	-
	ADD:			
12 13	Working Capital Other Additions	- 6,983	-	- 6,983
14	Total Rate Base	\$ 730,084	\$ (67,991)	\$ 662,093

SUMMARY OF RATE BASE ADJUSTMENTS

[O] STAFF	ADJUSTED	\$ 22,425 93,205 225,481 119,002 (58,299) 304,911 1,057,174 10,116 185,262 (23,733) 40,209 77,799 46,885	\$ 2,101,392	(1,091,936)	\$ 1,009,456	(243,473)	(15,334) 622 (14,712)	(258,185)	(7,769) (88,392) - -	6,983 6,983 \$ 662,093
<u>Z</u>	ADJ No. 5		1	•	·	. ↔	1 - 2	,	(7,769) (15,978)	\$ (23,747)
Œ	ADJ No. 4		ı	t	-	ج	- 622 622	622		
[0]	ADJ No. 3	· · · · · · · · · · · · · · · · · · ·	 	,	-	√	(622)	(622)	1 1	
<u>[</u>	ADJ No. 2	· · · · · · · · · · · · · · · · · · ·		17,305	17,305	ı ₩			1.1	- 17,305
[8]	ADJ No.1	\$ (50,750) (1,725) (14,374) 14,373 (58,299) (38,542) 48,805 38,542	(61,549)		\$ (61,549) \$	· v		ı		- - - - (61,549)
[A] COMPANY	AS FILED	73,175 94,930 239,855 104,629 304,911 1,057,174 10,116 185,262 14,810 40,209 28,994 8,343	2,162,941	\$ (1,109,241)	\$ 1,053,700	\$ (243,473)	(14,712)	(258,185)	(72,414)	6,983 \$ 730,084
	DESCRIPTION	PLANT IN SERVICE: Organization Land and Land Rights Structures and Improvenments Wells and Structures Pumping Equipment Water Treatment Equipment Distribution Reservoirs and Standpipes Transmission and Distribution Mains Services Meter and Meter Installations Hydrants Other Plant and Misc Equipment Office Furniture and Equipment Transportation Equipment Tool and Work Equipment Communications Equipment	Total Plant in Service - Actual	Less: Accumulated Depreciation - Actual	Net Plant in Service	<u>LESS:</u> Advances in Aid of Construction (AIAC)	Contributions in Aid of Construction (CIAC) Less: Accumulated Amortization Net CIAC (L25 - L26)	Total Advances and Contributions	Customer Meter Deposits Meter Advances Deferred Tax Credits <u>ADD:</u>	Working Capital Allowance Deferred Debits CWIP Total Rate Base
I N N	o O	- 0 m 4 m 0 r m 0 b t 2 t 2 t 2 t 2 t 2 t 2 t 2 t 2 t 2 t	15 Tot	16 Les	17 Net	18 Ad	19 Col 20 L 21	22 Tot	23 Custo 24 Meter 25 Defer 25 Defer 2002.	26 Wc 27 Def 28 CW 29 To

RATE BASE ADJUSTMENT NO. 1 - PLANT IN SERVICE

		[A]	[A] [B]			
LINE NO.	DESCRIPTION	COMPANY AS FILED	STAFF ADJUSTMENTS		STAFF AS ADJUSTED	
1	Land and Land Rights	73,175	(50,750)	1	22,425	
2	Structure and Improvements	94,930	(1,725)		93,205	
3	Wells and Springs	239,855	(14,374)	3	225,481	
4	. •	104,629	14,373	4	119,002	
5	Electric Pumping Equipment Storage Tanks	304,911	(58,299)		246,612	
6	Transmission and Distribution-Mains	1,057,175	(56,299)	J	1,057,175	
7		10,116	-		10,116	
,	Services	•	-		·	
8	Meters	185,262	-		185,262	
9	Hydrants	14,810	-	_	14,810	
10	Plant Structure and Improvements	40,209	(38,543)	6	1,666	
11	Office Furniture and Equipment	28,993	-		28,993	
12	Transportation Equipment	8,343	48,805	7	57,148	
13	Tools and Work Equipment	-	38,542	8	38,542	
14	Communication Equipment	533	-		533	
15	Miscellaneous Equipment	-	422	9	422	
14	Plant in Service	\$ 2,162,941	\$ (61,549)		\$ 2,101,392	

References:

Column [A]: Company Schedule E-5

Column [B]: Testimony ENZ

Column [C]: Column [A] plus column [B]

Adjustment Notes:

justinent Notes.	
1 Staff engineer removed purchased land.	(50,750)
2 Staff removed remodeling expense - landlord's expense.	(1,725)
3 Wells and springs - reclassified to electric pumping equipment.	(14,374)
4 Electric Pumping Equipment - reclassified from wells and springs.	14,373
5 Staff engineer removed storage tank not used or useful.	(58,299)
6 Plant Structure and Improvements - reclassified to tools and work equipment.	(38,543)
7 Staff removed truck sold and 1979 truck not used and usefull and	
reclassified two 2001 GMC trucks leased from Henry Sutter yet paid by Pineview.	48,805
8 Tools and Work Equipment - reclassified from plant structure and improvements.	38,542
9 Miscellaneous Equipment - touchreader reclassified from operating expense.	 422
	\$ (61.549)

RATE BASE ADJUSTMENT NO. 2 - ACCUMULATED DEPRECIATION

		[A]	[B]	[C]
LINE NO.	DESCRIPTION	COMPANY AS FILED	STAFF ADJUSTMENTS	STAFF AS ADJUSTED
1	Accumulated Depreciation, Actual	\$(1,109,241)	\$ 17,305	\$ (1,091,936)

References:

Column [A]: Company Schedule E-5

Column [B]: Testimony ENZ

Schedule ENZ-7

RATE BASE ADJUSTMENT NO. 3 - CIAC

		[A]	[B]	[C]		
LINE NO.	DESCRIPTION	COMPANY AS FILED	STAFF ADJUSTMENTS	STAFF AS ADJUSTED		
1	Contributions in Aid of Construction	\$ (14,712)	\$ (622)	\$ (15,334)		

References:

Column [A]: Company Schedule B-5

Column [B]: Testimony ENZ

RATE BASE ADJUSTMENT NO. 4 - CIAC AMORTIZATION

			[A]		[B]	[C]		
LINE NO.			COMPANY AS FILED		STAFF ADJUSTMENTS		STAFF AS ADJUSTED	
1	Amortization of Contributions		\$		\$	622	\$	622

References:

Column [A]: Company Schedule B-5

Column [B]: Testimony ENZ

RATE BASE ADJUSTMENT NO. 5 - CUSTOMER DEPOSITS

	[A]	[B]	[C]_		
LINE NO. DESCRIPTION	COMPANY AS FILED	STAFF ADJUSTMENTS	STAFF AS ADJUSTED		
1 Customer Deposits	\$	\$ (7,769)	\$ (7,769)		

References:

Column [A]: Company Schedule B-5

Column [B]: Testimony ENZ

RATE BASE ADJUSTMENT NO. 6 - METER ADVANCES

		[A]	[B]	[C]		
LINE NO.	DESCRIPTION	COMPANY AS FILED	STAFF ADJUSTMENTS	STAFF AS ADJUSTED		
1	Meter Advances	\$ (72,414)	\$ (15,978)	\$ (88,392)		

References:

Column [A]: Company Schedule B-5

Column [B]: Testimony ENZ

OPERATING INCOME - TEST YEAR AND STAFF PROPOSED

			[A]		[B]	[C] STAFF		[D]		[E]
				5	STAFF	TEST YEAR		STAFF		
LINE	DECORIDATION	_	YNAGMC		ST YEAR	AS		OPOSED	DEO	STAFF
<u>NO.</u>	DESCRIPTION	<u>A</u>	S FILED	ADJU	<u>ISTMENTS</u>	<u>ADJUSTED</u>	CF	<u>IANGES</u>	RECO	OMMENDED
	REVENUES:									
1	Total Operating Revenues	\$	522,724	\$	-	\$ 522,724	\$	15,495	\$	538,219
	EVERNOES.									
1	EXPENSES: Salaries and Wages		231,295		(47,015)	184,280		_		184,280
2	Employee Pensions and Benefits		37,171		(7,557)	29,614		_		29,614
3	Purchased Power		42,953		(3,441)	39,512		_		39,512
4	Repairs and Supplies		29,243		(7,017)	22,226		_		22,226
5	Water Testing		20,240		(7,017)	-		_		-
6	Office Supplies and Expense		-		(1,152)	(1,152)		-		(1,152)
7	Contractual Services		13,252		3,157	16,409		_		16,409
8	Rate Case Expense		-		-	-		-		-
9	Rent		52,035		(37,468)	14,567		_		14.567
10	Materials and Supplies		4,120		-	4,120		-		4,120
11	Transportation Expenses		.,			-				•
12	Insurances - General Liability					-				-
13	Insurance Health and Life		-		_			_		-
14	Bank Service Charges					-				_
15	Dues anf Subscriptions					-				-
16	Licenses and Fees					_				-
17	Postage and Freightt				(311)	(311)				(311)
18	Printing and Reproduction					`- ′				`- ′
19	Telephone Expense				(1,994)	(1,994)				(1,994)
20	Meals and Entertainment				. ,	•				-
21	Travel					-				-
22	Other Utilities					-				-
23	Small Tools				(422)	(422)				(422)
24	Bad Debt Expense				(8,347)	(8,347)				(8,347)
25	Certified Operator Fee					-				-
26	Penalties Expense					-				-
27	Miscellaneous Expense		72,950		-	72,950		-		72,950
28	Taxes Other than Property and Income		-		-	-		-		-
29	Administrative Expenses		-							-
30	Total Operation and Maintenance		483,019		(111,567)	371,452		-		371,452
31	Depreciation and Amortization		44,684		38,362	83,046		-		83,046
32	Ad Valorem (Property)		27,797		370	28,167		-		28,167
33	Taxes:									
34	Federal & State Income Tax		(12,550)		17,191	4,641		3,242		7,883
35	Other		-		-	-				-
36	Total Operating Expenses	\$	542,950	\$	(55,644)	\$ 487,306	\$	3,242	\$	490,548
37	Operating Income (Loss)	\$	(20,226)	\$	55,644	\$ 35,418		12,253	\$	47,671

SUMMARY OF OPERATING INCOME ADJUSTMENTS - TEST YEAR

[L] STAFF	ADJUSTED	518,560 4,164 \$ 522,724	\$ 184,280 29,614 39,512	(1,152) 16,409	- 14,567 4,120		(311)	(422) (8,347)	72,950	371,452 83,046 28,167	4,641	\$ 35,418
区	ADJ #11	se			i i	ı		(8,347)		(8,347)	17,191	\$ (8,844)
	ADJ #10							(422)		(422)	(52)	\$ 52
Ξ	ADJ#9		1, 1			ı	(1,994)		1 1	(1,994) 38,362	36,368	\$ (36,368)
Ξ	ADJ #8	· •			1 1		(311)			(311)	(311)	\$ 311
[6]	ADJ #7	ا د	1 1		(37,468)	,				(37,468)	(37,468)	\$37,468
E	ADJ #6	· \$		3,157		i			,	3,157	3,157	\$ (3,157)
Œ	ADJ #5	6		(1,152)						(1,152)	(1,152)	\$ 1,152
Ξ	ADJ #4	, 69	- (2,042)		ı	ı				(7,017)	(7,017)	\$7,017
൧	ADJ#3	, s	(3,441)							(3,441)	\$ (3,441)	\$ 3,441
Ō	ADJ #2	⇔	(7,557)	. 1 1		•			1 1	(7,557)	\$ (7,557)	\$ 7,557
[8]	ADJ #1	.	(47,015)		t I	1				(47,015)	\$ (47,015)	\$ 47,015
[A] COMPANY	AS FILED	518,560 4,164 \$ 522,724	231,295 37,171 42,953	13,252	52,035 4,120				72,950	483,019 44,684 27,797	(12,550)	\$ (20,226)
	DESCRIPTION	REVENUES: Metered Water Revenue Other Water Revenue Total Operating Revenues	EXPENSES: Salaries and Wages Employee Pensions and Benefits Purchased Power	Notation and Expense Office Supplies and Expense Contractual Services	Rate Case Expense Rent Materials and Supplies	Transportation Expenses Insurances - General Liability Insurance Health and Life Bank Service Charges	Dues all Subscriptions Licenses and Fees Postage and Freightt Printing and Reproduction Telephone Expense Meals and Entertainment Travel	Other Utilities Small Tools Bad Debt Expense Certified Operator Fee	insurance Miscellaneous Expense Taxes Other than Property and Income Administrative Expenses	Total Operation and Maintenance Depreciation and Amortization Ad Valorem (Property)	Federal & State Income Tax Other (Deferred Income Tax) Total Operating Expenses	Operating Income (Loss)
Ш 2	<u>8</u>	1 RE	4 ℃ ⊕ ∠ ∰	- & & 0	- 2 2 2	4 th th th	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	8 8 8 8	8 8 8 8 8	38 39 40	4

OPERATING INCOME ADJUSTMENT NO 1 - SALARIES EXPENSE

	[A]		[B]		[C]	
LINE	COMPA	NY	STAFF		STAFF AS	
NO. DESCRIPTION	AS FILE	D	ADJUSTMENT		AD	JUSTED
	•	004.005	Φ.	(47.045)	Φ.	404.000
1 Salaries	\$	231,295	<u> \$ </u>	(47,015)		184,280
2 Total	<u>\$</u>	231,295	<u> </u>	(47,015)	\$	184,280
Per Job Descriptions submitted by the	Company - goir	ng forward	salaries.			
3 Billing Clerk	\$10.00 per hour			20,800		
4 Staff Accountant	\$13.00 per hou	r		27,040		
5 Senior Serviceman	\$14.50 per hou			30,160		
6 Operations Superintendant	\$15.00 per hou			31,200		
7 Site Project/Inspection Manager	\$16.00 per hou			33,280		
8 General Manager	\$700 per week			36,400	,	178,880
9 Add Director fee of \$150 per meeting. Board of Directors meetings, 12 meeti (Henry, Katherine and Mandy Sutter)		5,400				
10 Staff's recommended salaries expense	Э				\$	184,280

References:

Column [A]: Company Schedule C-1

Column [B]: Testimony ENZ

Schedule ENZ- 14

OPERATING INCOME ADJUSTMENT NO 2 - EMPLOYEE PENSIONS AND BENEFITS

	[A]	[B] _	[C]
LINE	COMPANY	STAFF	STAFF AS
NO. DESCRIPTION	AS FILED	ADJUSTMENT	ADJUSTED
1 Employee Pensions and Benefits	37,171	\$ (7,557)	29,614
2 Total	\$ 37,171	\$ (7,557)	\$ 29,614

References:

Column [A]: Company Schedule C-1

Column [B]: Testimony ENZ

OPERATING INCOME ADJUSTMENT NO 3 - PURCHASED POWER EXPENSE

	[/	\]		[B]			[C]
LINE	COMPANY		STAFF		STAFF AS		
NO. DESCRIPTION	 AS FILED		ADJUSTMENT		ADJUSTED		
1 Purchased Power Expense	 \$	42,953		\$	(3,441)	\$	39,512_
2 Total	\$	42,953	\$		(3,441)	\$	39,512

References:

Column [A]: Company Schedule C-1

Column [B]: Testimony ENZ

OPERATING INCOME ADJUSTMENT NO 4 - REPAIRS AND SUPPLIES EXPENSE

		[A]		[B]			[C]		
LINE		COM	IPANY	ST	STAFF			STAFF AS	
NO. DESCRIPTION		AS I	FILED	ADJUS	STMENT			ADJUSTED	
				•	(0.70)			(050)	
1 Septic clean-up		\$	-	\$	(350)	1	\$	(350)	
2 Truck Repairs		\$	-	\$	(1,089)	2	\$	(1,089)	
3 Backhoe and Skidste	er Repairs	\$	-	\$	(5,578)	3	\$	(5,578)	
4 Repairs and Supplies	3		29,243	\$	-			29,243	
5 Total	_	\$	29,243	\$	(7,017)		\$	22,226	
6 Roto Rooter charged		(350)							
o recto rector charges	twice in one year				(000)				
7 Truck repairs expens	e - reclass to Trans	sportation E	Expense		(1,089)				
8 These charges appe	ar to belong to Mr.	Sutter's hea	avy						
equipment rental ope	equipment rental operations.			_	(5,578)				
				\$	(7,017)				

References:

Column [A]: Company Schedule C-1

Column [B]: Testimony ENZ

OPERATING INCOME ADJUSTMENT NO 6 - CONTRACTUAL SERVICES EXPENSE

		[A]	[B]	[C]
LINE	(COMPANY	STAFF	STAFF AS
NO. DESCRIPTION		AS FILED	ADJUSTMENT	ADJUSTED
4.00		40.050	0.457	40.400
1 Contractual Services		13,252	3,157	16,409
2 Total	\$	13,252	\$ 3,157	\$ 16,409

References:

Column [A]: Company Schedule C-1

Column [B]: Testimony ENZ

Column [C]: Column [A] plus column [B]

Adjustment Notes:

Water testing expense increased per Staff engineer recommendation

OPERATING INCOME ADJUSTMENT NO 7 - RENT EXPENSE

[/	A]	[B]		[C]	
COM	PANY	STAF	F	STAFF /	AS
AS F	ILED	ADJUST	ME <u>NT</u>	ADJUST	ED
	52,035		(37,468)		14,567
\$	52,035	\$	(37,468)	\$	14,567
	СОМ		COMPANY STAF AS FILED ADJUSTI 52,035	COMPANY STAFF AS FILED ADJUSTMENT 52,035 (37,468)	COMPANY STAFF STAFF AS FILED ADJUSTMENT ADJUST 52,035 (37,468)

Adjustment Notes:

3 Staff removed lease expense. Decision No. 59934 dated December 18, 1996 orders the newest backhoe be included in the Company's plant in service. Staff confirmed the inclusion of the Commission ordered backhoe. Company has no need to rent or lease any other heavy equipment.

18,000

4 Staff removed lease expense of the two 2001 GMC trucks which Staff reclassified to plant in service.

14,400

5,067

5 Unsubstantiated expense, checks issued to Henry Sutter.

\$ 37,467

References:

Column [A]: Company Schedule C-1

Column [B]: Testimony ENZ

OPERATING INCOME ADJUSTMENT NO 10 - MATERIALS AND SUPPLIES EXPENSE

		[A]	[B]		[C]
LINE	COMPANY		STAFF		STAFF AS
NO. DESCRIPTION		AS FILED	ADJUSTME	NT	ADJUSTED
1 Materials and Supplies Expense		4,120		(422)	3,698
2 Total	\$	4,120	\$	(422)	\$ <u>3,698</u>

References:

Column [A]: Company Schedule C-1

Column [B]: Testimony ENZ

OPERATING INCOME ADJUSTMENT - TRANSPORTATION EXPENSE

	[A]	[B]	[C]			
LINE	COMPANY	STAFF	STAFF AS			
NO. DESCRIPTION	AS FILED	ADJUSTMENT	ADJUSTED			
		<u> </u>				
1 Transportation Expense	-	-	-			
2 Total	\$ -	\$ -	\$ -			
Adjustments						
3 Reclassification from Repairs and main	ntenance	1,089				
4 Removal of fuel expense - Henry Sutte	er	(480)				
5 Unsubstantiated fuel expense		(79)				
6 Fuel expense for Ford truck not used of	or useful	(530)				
Total Adjustment		-				
References:						

Column [A]: Company Schedule C-1

Column [B]: Testimony ENZ

OPERATING INCOME ADJUSTMENT NOS 5, 8, 9 and 11 - MISCELLANEOUS EXPENSE

	[A]	[B]	[C]		
LINE	COMPANY	STAFF	STAFF AS		
NO. DESCRIPTION	AS FILED	ADJUSTMENT	ADJUSTED		
1 Miscellaneous Expense	72,950	(11,80 <u>4)</u>	61,146_		
2 Total	\$ 72,950	\$ (11,804)	\$ 61,146		
Adjustments 3 Company is no longer using uniforms:	1,152				
4 Postage/freight expense incurred by M	lercon.	311			
5 Excess telephone charges, will not be	repeated going forward.	1,994			
6 Four year average, accounts receivable	8,347				
	11.804				

References:

Column [A]: Company Schedule C-1

Column [B]: Testimony ENZ

OPERATING INCOME ADJUSTMENT NO. 7 - DEPRECIATION EXPENSE

		[A]		[B]			[C]
LINE NO.	DESCRIPTION		MPANY FILED	l .	STAFF USTMENT	A	STAFF S ADJUSTED
1 2	Depreciation Expense CIAC Amortization	\$	44,684 - 44,684	\$	38,984 (622) 38,362	\$ \$	83,668 (622) 83,046

References:

Column [A]: Company Schedule C-1

Column [B]: Testimony ENZ

OPERATING INCOME ADJUSTMENT NO. 8 - PROPERTY TAX EXPENSE

		[A]	[B]	[C]	
LINE		COMPANY	STAFF	STAFF AS	7
NO.	DESCRIPTION	AS FILED	ADJUSTMENT	ADJUSTMENT	
1	2001 Annual Gross Revenues			\$ 245,292	
2	2002 Annual Gross Revenues			\$	
3	2003 Annual Gross Revenues			\$ 287,332	
4	Plus Staff's Recommended Increase			\$ 15,495	
5	Subtotal (Lines 1 + 2 + 3 + 4)			\$ 837,293	,
6	Three Year Average Calculation			3	<u>; </u>
7	Three Year Average (Line 5 / Line 6)			\$ 279,098	,
8	Department of Revenue Multiplier			2	<u>. </u>
9	Revenue Base Value (Line 7 x Line 8)			\$ 558,195	,
10	Plus: 10% of 2001 CWIP				M
11	Less: Net Book Vaule of Leased Vehicles			\$ -	
12	Full Cash Value (Line 9 + Line 10 - Line 11)			\$ 558,195	<u>;</u>
13	Assessment Ratio			0.25	<u>; </u>
14	Assessed Value (Line 12 x Line 13)			\$ 139,549)
15	Composite Property Tax Rate			0.14287	7
16	Staff Proposed Property Tax Expense (Line 14 x Line 15)	\$ 19,568	\$ 370	\$ 19,938	<u>}</u>

References:

Column [A]: Company Schedule C-1

Column [B]: Testimony ENZ

OPERATING INCOME ADJUSTMENT NO. 9 - INCOME TAX EXPENSE

		[A]	[B]	 [C]
LINE		COMPANY	STAFF	STAFF AS
NO.	DESCRIPTION	AS FILED	ADJUSTMENT	ADJUSTED
1	Federal Income Taxes			\$ 3,095
2	State Income Taxes			1,546
3	Total Income Taxes	\$ (12,550)	\$ 17,191	\$ 4,641

References:

Column [A]: Company Schedule C-1

Column [B]: Testimony ENZ

RATE DESIGN

	Minimum Monthly Usage Charge					
		Present		Proposed Rate		Rates
		Rates	Company			Staff
Monthly Usage Charge:						
5/8" x 3/4" Meter	\$	17.00	\$	21.25	\$	16.75
3/4" Meter	\$	24.14	\$	30.25	\$	26.00
1" Meter	\$	42.27	\$	53.00	\$	45.00
1 1/2" Meter	\$	82.49	\$	103.00	\$	86.00
2" Meter	\$	130.76	\$	163.00	\$	132.00
3" Meter	\$	241.35	\$	300.00	\$	255.00
4" Meter	\$	402.25	\$	500.00	\$	418.75
6" Meter	\$	804.50	\$	1,000.00	\$	837.50
8" Meter	\$	1,206.75	\$	1,500.00	\$	1,675.00
10" Meter	\$	1,609.00	\$	2,000.00	\$	2,512.50
Gallons Included In Minimum Charge:						
5/8" x 3/4" Meter		0		0		0
3/4" Meter		0		0		0
1" Meter		0		0		0
1 1/2" Meter		0		0		0
2" Meter		0		0		0
3" Meter		0		0		0
4" Meter		0		0		0
6" Meter		0		0		0
8" Meter		0		0		0
10" Meter		0		0		0

RATE DESIGN

		Present		Proposed Rates				-
Commodity Rates :	ommodity Rates : Rate		ates	С	ompany		Staff	
5/8" x 3/4" Meter								
Per 1,000 Gallons	0 to 5,000 Gallons	\$	3.26	\$	3.78		N/A	
Per 1,000 Gallons	0 to 3,000 Gallons	\$	3.26		N/A	\$		3.10
Per 1,000 Gallons	5,001 to 20,000 Gallons	\$	3.26	\$	4.10		N/A	
Per 1,000 Gallons	3,001 to 20,000 Gallons	\$	3.26		N/A	\$		3.66
Per 1,000 Gallons	Over 20,000 Gallons	\$	3.26	\$	4.50		N/A	
Per 1,000 Gallons	Over 20,000 Gallons	\$	3.26		N/A	\$		4.20
Commodity Rates :								
3/4" Meter								
Per 1,000 Gallons	0 to 10,000 Gallons	\$	3.26	\$	3.78		N/A	
Per 1,000 Gallons	0 to 3,000 Gallons	\$	3.26		N/A	\$		3.10
Per 1,000 Gallons	10,001 to 40,000 Gallons	\$	3.26	\$	4.10		N/A	
Per 1,000 Gallons	3,001 to 20,000 Gallons	\$ \$ \$	3.26		N/A	\$		3.66
Per 1,000 Gallons	Over 40,000 Gallons	\$	3.26	\$	4.50		N/A	
Per 1,000 Gallons	Over 20,000 Gallons	\$	3.26		N/A	\$		4.20
Commodity Rates :								
1" Meter		•			0.70			
Per 1,000 Gallons	0 to 20,000 Gallons	\$ \$ \$ \$ \$ \$	3.26	\$	3.78	Φ.	N/A	0.40
Per 1,000 Gallons	0 to 30,000 Gallons	\$	3.26	•	N/A	\$	5.1/6	3.10
Per 1,000 Gallons	20,001 to 80,000 Gallons	\$	3.26	\$	4.10	Φ.	N/A	0.00
Per 1,000 Gallons	30,001 to 75,000 Gallons	\$	3.26	•	N/A	\$		3.66
Per 1,000 Gallons	Over 80,000 Gallons	\$	3.26	\$	4.50	•	N/A	4.00
Per 1,000 Gallons	Over 75,000 Gallons	\$	3.26		N/A	\$		4.20
Commodity Rates : 1 1/2" Meter								
Per 1,000 Gallons	0 to 20,000 Gallons	¢	3.26	\$	3.78		N/A	
Per 1,000 Gallons	0 to 50,000 Gallons	\$ \$	3.26	Ψ	N/A	\$	19/75	3.10
Per 1,000 Gallons	20,001 to 80,000 Gallons	\$	3.26	\$	4.10	Ψ	N/A	5.10
Per 1,000 Gallons	50,001 to 100,000 Gallons	\$	3.26	Ψ	N/A	\$	13/73	3.66
Per 1,000 Gallons	Over 80,000 Gallons	\$	3.26	\$	4.50	Ψ	N/A	5.00
Per 1,000 Gallons	Over 100,000 Gallons	\$	3.26	Ψ	N/A	\$	11//	4.20
	Over 100,000 Gallons	Ψ	0.20		11//-3	Ψ		7.20
Commodity Rates :								
2" Meter								
Per 1,000 Gallons	0 to 60,000 Gallons	\$	3.26	\$	3.78	_	N/A	
Per 1,000 Gallons	0 to 120,000 Gallons	\$	3.26		N/A	\$		3.10
Per 1,000 Gallons	60,001 to 200,000 Gallons	\$	3.26	\$	4.10	_	N/A	
Per 1,000 Gallons	120,001 to 200,000 Gallons	\$	3.26		N/A	\$		3.66
Per 1,000 Gallons	Over 200,000 Gallons	\$	3.26	\$	4.50		N/A	
Per 1,000 Gallons	Over 200,000 Gallons	\$	3.26		N/A	\$		4.20

RATE DESIGN

			Present		Proposed Rates				
Commodity Rates :			ates	C	ompany		Staff		
3" Meter		-							
Per 1,000 Gallons	0 to 100,000 Gallons	\$	3.26	\$	3.78		N/A		
Per 1,000 Gallons	0 to 150,000 Gallons	\$	3.26		N/A	\$		3.10	
Per 1,000 Gallons	100,001 to 400,000 Gallons	\$	3.26	\$	4.10		N/A		
Per 1,000 Gallons	150,001 to 250,000 Gallons	\$	3.26		N/A	\$		3.66	
Per 1,000 Gallons	Over 400,000 Gallons	\$	3.26	\$	4.50	·	N/A		
Per 1,000 Gallons	Over 250,000 Gallons	\$	3.26	•	N/A	\$		4.20	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		•				·			
Commodity Rates :									
4" Meter									
Per 1,000 Gallons	0 to 200,000 Gallons	\$	3.26	\$	3.78		N/A		
Per 1,000 Gallons	0 to 150,000 Gallons		3.26		N/A	\$		3.10	
Per 1,000 Gallons	200,001 to 600,000 Gallons	\$	3.26	\$	4.10		N/A		
Per 1,000 Gallons	150,001 to 250,000 Gallons	\$	3.26		N/A	\$		3.66	
Per 1,000 Galions	Over 600,000 Gallons	\$	3.26	\$	4.50	·	N/A		
Per 1,000 Gallons	Over 250,000 Gallons	\$ \$ \$ \$ \$	3.26	•	N/A	\$		4.20	
•	•	•							
Commodity Rates :									
6" Meter									
Per 1,000 Gallons	0 to 700,000 Gallons	\$	3.26	\$	3.78		N/A		
Per 1,000 Gallons	0 to 150,000 Gallons	\$	3.26	•	N/A	\$		3.10	
Per 1,000 Gallons	700,001 to 2,000,000 Gallons	\$	3.26	\$	4.10	·	N/A		
Per 1,000 Gallons	150,001 to 250,000 Gallons	\$ \$ \$	3.26	•	N/A	\$		3.66	
Per 1,000 Gallons	Over 2,000,000 Gallons	\$	3.26	\$	4.50	•	N/A		
Per 1,000 Gallons	Over 250,000 Gallons	\$	3.26	•	N/A	\$		4.20	
		*	00			•		,,	
Commodity Rates :									
8" Meter									
Per 1,000 Gallons	0 to 1,000,000 Gallons	\$	3.26	\$	3.78		N/A		
Per 1,000 Gallons	0 to 150,000 Gallons		3.26	•	N/A	\$		3.10	
Per 1,000 Gallons	1,000,001 to 3,000,000 Gallons	\$ \$ \$	3.26	\$	4.10	·	N/A		
Per 1,000 Gallons	150,001 to 250,000 Gallons	\$	3.26	•	N/A	\$,.	3.66	
Per 1,000 Gallons	Over 3,000,000 Gallons	\$	3.26	\$	4.50	•	N/A		
Per 1,000 Gallons	Over 250,000 Gallons	\$	3.26	•	N/A	\$		4.20	
,		,				•			
Commodity Rates :									
10" Meter									
Per 1,000 Gallons	0 to 2,000,000 Gallons	\$	3.26	\$	3.78		N/A		
Per 1,000 Gallons	0 to 150,000 Gallons		3.26	•	N/A	\$		3.10	
Per 1,000 Gallons	2,000,001 to 5,000,000 Gallons	\$ \$	3.26	\$	4.10	*	N/A		
Per 1,000 Gallons	150,001 to 250,000 Gallons		3.26	7	N/A	\$		3.66	
Per 1,000 Gallons	Over 5,000,000 Gallons	\$	3.26	\$	4.50	~	N/A		
Per 1,000 Gallons	Over 250,000 Gallons	\$ \$ \$	3.26	*	N/A	\$,, .	4.20	
. 5. 1,555 04110110	2.1. 200,000 Gallotto	~	J.25			~		0	
Contruction Water - All U	sage	\$	3.26	\$	4.75	\$		4.75	
	• • • •	₹		*	•	~			

RATE DESIGN

RATE DESIGN						
	Present				sed	Rates
		Rates	C	ompany		Staff
Samina Line and Mater Installation Charges						
Service Line and Meter Installation Charge: 5/8" x 3/4" Meter	æ	400.00	\$	475.00	\$	475.00
3/4" Meter	\$ \$	440.00	φ \$		\$	
	\$ \$		Ф \$	550.00	Ф \$	550.00 650.00
1" Meter 1 1/2" Meter	э \$	500.00		650.00 900.00		900.00
		715.00	\$		\$ \$	1,550.00
2" Meter (Turbine	\$	1,170.00	\$	1,550.00		•
2" Meter (Compound)	\$	1,700.00	\$	2,300.00 2,200.00	\$	2,300.00 2,200.00
3" Meter (Turbine	\$	1,585.00	\$	•	\$	•
3" Meter (Compound)	\$	2,190.00	\$	3,100.00	\$	3,100.00
4" Meter (Turbine	\$	2,540.00	\$	3,400.00	\$	3,600.00
4" Meter (Compound)	\$	3,215.00	\$	4,400.00	\$	4,400.00
6" Meter (Turbine	\$	4,615.00		6,200.00	\$	6,200.00
6" Meter (Compound)	\$	6,270.00		7,900.00	\$	7,900.00
8" Meter (Turbine	\$	6,655.00		8,850.00	\$	7,543.00
8" Meter (Compound)	\$	7,040.00	\$	9,350.00	\$	7,980.00
10" Meter (Turbine	\$	8,495.00		11,300.00	\$	9,629.00
10" Meter (Compound)	\$	9,950.00	Ф	13,200.00		11,278.00
Service Charges:						
Establishment - Regular Hours	\$	20.00	\$	25.00	\$	20.00
Establishment Fee (After hours)	\$	35.00	\$	50.00	\$	35.00
Re-Establishment Fee (Within 12 Months)	·	(b)		(b)	•	(b)
Re-Connection of Service - Regular Hours	\$	15.00	\$	50.00	\$	15.00
Re-Connection of Service - After Hours	•	NR (1)	\$	75.00	\$	30.00
Water Meter Test - if Correct	\$	20.00		ost (2)	\$	20.00
Water Meter Relocation At Customer Request	,	NR (1)		ost (2)		st (2)
Meter Re-read - if Correct	\$	15.00		Charge		Charge
NSF Check Charge	\$	15.00	\$	25.00	\$	15.00
Late Charge	•	1.5%	·	1.5%	•	1.5%
Deferred Payment Finance Charge		1.5%		1.5%		1.5%
Service Calls - Regular Hours	Ν	lo Charge	Ν	o Charge		No Charge
Service Calls - After Hours		NR (1)	\$	50.00	\$	25.00
Deposits Requirements		(a) ´	•	(a)		(a)
Deposit Interest		(a)		(a)		(a)
·		` '		` '		` ,

- (a) Number of months off system X minimum monthly charge
- (b) Per Commission Rule A.C.C. R14-2-403D
- (c) 1.5 percent per Commission Rule.R14--2-403B

NOTES:

- (1) No Currently Approved Rate
- (2) Cost Includes Materials, Labor and Overheads

TYPICAL BILL ANALYSIS

General Service 5/8 x 3/4 - Inch Meter

Average Number of Customers: 813

Company Proposed	Gallons	Present Rates	Proposed Rates	Dollar Increase	Percent Increase
Average Usage	5,277	\$34.20	\$41.29	\$7.09	20.7%
Median Usage	3,250	\$27.60	\$33.54	\$5.94	21.5%
Staff Proposed					
Average Usage	5,277	\$34.20	\$34.38	\$0.18	0.5%
Median Usage	3,250	\$27.60	\$26.97	(\$0.63)	-2.3%

Present & Proposed Rates (Without Taxes) General Service 5/8 x 3/4 - Inch Meter

		Company		Staff	
Gallons	Present	Proposed	%	Proposed	%
Consumption	<u>Rates</u>	<u>Rates</u>	<u>Increase</u>	Rates	<u>Increase</u>
0	\$17.00	\$21.25	25.0%	\$16.75	-1.5%
1,000	20.26	25.03	23.5%	19.85	-2.0%
2,000	23.52	28.81	22.5%	22.95	-2.4%
3,000	26.78	32.59	21.7%	26.05	-2.7%
4,000	30.04	36.37	21.1%	29.71	-1.1%
5,000	33.30	40.15	20.6%	33.37	0.2%
6,000	36.56	44.25	21.0%	37.03	1.3%
7,000	39.82	48.35	21.4%	40.69	2.2%
8,000	43.08	52.45	21.8%	44.35	2.9%
9,000	46.34	56.55	22.0%	48.01	3.6%
10,000	49.60	60.65	22.3%	51.67	4.2%
15,000	65.90	81.15	23.1%	69.97	6.2%
20,000	82.20	101.65	23.7%	88.27	7.4%
25,000	98.50	124.15	26.0%	109.27	10.9%
50,000	180.00	236.65	31.5%	214.27	19.0%
75,000	261.50	349.15	33.5%	319.27	22.1%
100,000	343.00	461.65	34.6%	424.27	23.7%
125,000	424.50	574.15	35.3%	529.27	24.7%
150,000	506.00	686.65	35.7%	634.27	25.3%
175,000	587.50	799.15	36.0%	739.27	25.8%
200,000	669.00	911.65	36.3%	844.27	26.2%

RAMIREZ

BEFORE THE ARIZONA CORPORATION COMMISSION

JEFF HATCH-MILLER

Chairman		
WILLIAM A. MUNDELL		
Commissioner		
MARC SPITZER		
Commissioner		
MIKE GLEASON		
Commissioner		
KRISTIN K. MAYES		
Commissioner		
IN THE MATTER OF THE APPLICATION OF)	DOCKET NO. W-01676A-04-0500
PINEVIEW WATER COMPANY, INC. FOR)	
AN INCREASE IN ITS WATER RATES FOR)	
CUSTOMERS WITHIN NAVAJO COUNTY,	Ś	
ARIZONA	Ś	
MAZOW	,	

DIRECT

TESTIMONY

OF

ALEJANDRO RAMIREZ

PUBLIC UTILITIES ANALYST III

UTILITIES DIVISION

ARIZONA CORPORATION COMMISSION

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EXECUTIVE SUMMARY

The direct testimony of Staff witness Alejandro Ramirez addresses the following issues:

<u>Capital Structure</u> – Staff recommends that the Commission adopt a capital structure for Pineview for this proceeding consisting of 49.0 percent debt and 51.0 percent equity.

<u>Cost of Debt</u> – Staff recommends that the Commission adopt the Applicant's actual cost of debt of 5.43 percent.

<u>Cost of Equity</u> – Staff recommends that the Commission adopt an 8.9 percent return on equity ("ROE"). Staff's estimated ROE for the Applicant is based on cost of equity estimates ranging from 8.5 percent capital asset pricing model ("CAPM") to 9.3 percent discounted cash flow ("DCF").

Overall Rate of Return – Staff recommends the Commission adopt an overall rate of return ("ROR") of 7.2 percent.

Direct Testimony of Alejandro Ramirez Docket No W-01676A-04-0500 Page 1

INTRODUCTION

- Q. Please state your name, occupation, and business address.
- A. My name is Alejandro Ramirez. I am a Public Utilities Analyst employed by the Arizona Corporation Commission ("ACC" or "Commission") in the Utilities Division ("Staff").
 My business address is 1200 West Washington Street, Phoenix, Arizona 85007.

Q. Briefly describe your responsibilities as a Public Utilities Analyst.

- **A.** In my position as a Public Utilities Analyst, I perform studies to estimate the cost of capital component of revenue requirement in rate proceedings. I also perform other financial analyses.
- Q. Please describe your educational background and professional experience.
- A. In 2002, I graduated summa cum laude from Arizona State University, receiving a Bachelor of Science degree in Global Business with a specialization in finance. While attending Arizona State University, I successfully completed the Barrett Honors College curriculum. My course of studies included classes in corporate and international finance, investments, accounting, statistics, and economics. I began employment as a Staff Public Utilities Analyst in 2003. Since that time, I have provided Staff's recommendations to the Commission on financings and prepared various studies in the field of cost of capital and econometrics. I have also attended seminars related to general regulatory and business issues.

Q. What is the scope of your testimony in this case?

A. I provide Staff's recommended rate of return in this case. I discuss the appropriate rate of return ("ROR") for establishing the revenue requirement for Pineview Water Company, Inc. ("Pineview" or "Applicant").

SUMMARY OF TESTIMONY AND RECOMMENDATIONS

- Q. Briefly summarize how Staff's cost of capital testimony is organized.
- A. Staff's cost of capital testimony is organized in eight sections. Section I discusses the concept of weighted average cost of capital ("WACC"). Section II presents the concept of capital structure and presents Staff's recommended capital structure for Pineview in this proceeding. Section III presents Staff's recommended cost of debt for the Applicant. Section IV discusses the concepts of return on equity ("ROE") and risk. Section V presents the methods employed to estimate Pineview's ROE. Section VI presents the findings of Staff's ROE analysis. Section VII presents the final cost of equity estimates for Pineview. Finally, section VIII presents Staff's ROR recommendation.

Q. Have you prepared any exhibits to your testimony?

A. Yes. I prepared eight schedules (AXR-1 to AXR-8) that support Staff's cost of capital analysis.

Q. What is Staff's recommended rate of return for Pineview?

A. Staff recommends a 7.2 percent ROR, which is based on Pineview's cost of debt of 5.43 percent and the cost of equity estimates that range from 8.5 percent to 9.3 percent. This rate is calculated on Schedule AXR-1.

PINEVIEW'S PROPOSED OVERALL RATE OF RETURN

- Q. Briefly summarize the Applicant's proposed capital structure, cost of debt, return on equity and overall rate of return for this proceeding.
- **A.** Table 1 summarizes the Applicant's proposed capital structure, cost of debt, return on equity and overall rate of return in this proceeding:

Table 1

			Weighted
	Weight	Cost	Cost
Long-term Debt	49.03%	5.43%	2.662%
Common Equity	50.97%	15.39%	<u>7.843%</u>
Cost of Capital/ROR			10.505%

Pineview is proposing an overall rate of return of 10.505 percent.

I. THE WEIGHTED AVERAGE COST OF CAPITAL

- Q. Please define the cost of capital concept.
- A. The cost of capital is the opportunity cost of the funds employed as the result of an investment decision. The cost of capital represents the returns that could be expected to be earned in other investments with equivalent risk. In other words, the cost of capital is the return that stakeholders expect for committing their resources in a determined business enterprise. The cost of capital is calculated by using the weighted average cost of capital ("WACC").

Q. How is the WACC calculated?

 $WACC = \sum_{i} W_i * r_i$

Equation 1.

2

A. The WACC is calculated by adding the weighted expected returns of the firm's securities.

3

The following equation shows how the WACC is calculated:

to the portfolio) and r_i is the expected return on the ith security.

4

5

6

7

8

9

10

11

Q. Can you provide an example applying Equation 1?

12

A. Yes. Assume that a firm has a capital structure composed of 75 percent debt and 25

13

percent equity. Also assume that the embedded cost of debt is 7.8 percent and the

expected return on equity (cost of equity) is 10.5 percent. The WACC calculation is as

Where W_i is the weight given to the ith security (the proportion of the ith security relative

1415

follows:

16

WACC = 75% * 7.8% + 25% * 10.5%

1718

WACC = 5.85% + 2.63%

19

20

WACC = 8.48%

21

The weighted average cost of capital in this case is 8.48 percent. Given the firm's capital structure, the company would have to earn an overall rate of return of 8.48 percent to

2223

cover its cost of capital.

2

3

II. CAPITAL STRUCTURE

Background

Q. Please explain the capital structure concept.

4 5 A. The capital structure of a firm shows how its assets are financed over the long-run. The capital structure of a firm is the mix of capital leases, long-term debt, preferred stock and common stock that are used to finance the firm's assets.

7

8

6

Q. How is the capital structure calculated?

9 10

A. The capital structure of a company is calculated by finding the percentage of each component of the capital structure (capital leases, long-term debt, preferred stock and

11

common stock) relative to the total capital (the total sum of all the components of the

12

capital structure).

1314

For illustrative purposes, suppose that company A is financed by \$15,000 of capital leases,

15

\$80,000 of long-term debt, \$5,000 of preferred stock and \$35,000 of common stock.

16

Company A's capital structure would be calculated as follows:

1718

Component			%
Capital Leases	\$15,000	(\$15,000/\$135,000)	11.1%
Long-Term Debt	\$80,000	(\$80,000/\$135,000)	59.3%
Preferred Stock	\$5,000	(\$5,000/135,000)	3.7%
Common Stock	\$35,000	(\$35,000/135,000)	25.9%
Total	\$135,000		100%

III. COST OF DEBT

Q. What cost of debt does the Applicant propose?

A. Pineview proposes a 5.43 percent cost of debt. This cost of debt is based on the annual interest rate of the Applicant's existing Water Infrastructure Finance Authority ("WIFA") loan.

Company A's capital structure is composed of 11.1 percent capital leases, 59.3 percent long-term debt, 3.7 percent preferred stock and 25.9 percent common stock.

- Q. Is there a relationship between capital structure and cost of equity capital?
- A. Yes. As a firm's leverage increases, so does its cost of equity capital. I will explain this relationship in more depth further in my testimony (Page 11).

Pineview Capital Structure

- Q. What capital structure does Staff recommend for Pineview?
- A. Staff recommends Pineview's actual capital structure at the end of the test year (December 31, 2003) which consists of 49.0 percent long-term debt and 51.0 percent common equity. This is the same capital structure proposed by the Applicant.
- Q. How does Pineview's capital structure compare to capital structures of publicly traded water utilities?
- A. The Applicant's capital structure is composed of 49.0 percent long-term debt and 51.0 percent equity. Schedule AXR-2 shows the capital structures of six publicly traded water companies ("sample water companies") as of June 2004. The sample water utilities were capitalized with approximately 49.9 percent debt and 50.1 percent equity, on average.

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Q. Does Staff agree with the cost of debt that Pineview is proposing?

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A. Yes, it does.

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IV. RETURN ON EQUITY

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Background

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Q. Please define the term cost of equity capital.

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investment in that firm given its risk. In other words, the cost of equity to a firm is the investors' expected rate of return on other investments of similar risk. The cost of equity

The cost of equity to a firm is the rate of return that investors expect to earn on their equity

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capital is determined by the market.

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Q. Is there any relationship between interest rates and the cost of equity?

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A. Yes. According to the capital asset pricing model ("CAPM")¹, the cost of equity moves in the same direction as interest rates. It is helpful to take into account how current interest

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rates compare to historical interest rates to have an idea of how the current cost of equity

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capital might be compared to the cost of equity capital historically.

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Q. What has been the general trend of interest rates in recent years?

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A. Interest rates have decreased in recent years. Current interest rates are lower than what

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they were at the end of 1999. Chart 1 graphs intermediate U.S. treasury rates from

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November 1999 to November 2004:

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¹ The CAPM is a market-based model used for estimating the cost of equity discussed further later in this testimony.



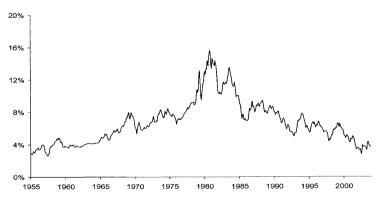


Source: Federal Reserve

Q. What has been the long-term trend in interest rates and what does it suggest for capital costs?

Chart 2 shows that interest rates have declined in the past twenty years and are currently at levels comparable to the 1960's. In retrospective, Chart 2 suggests that capital costs in general have declined significantly in the last 20 years.

Chart 2: History of 5- and 10-Year Treasury Yields



Source: Federal Reserve

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Q. Does the cost of equity represent actual returns?

A. No. As mentioned earlier, the cost of equity represents the investors' *expected* returns as opposed to actual returns.

Q. What have historical returns been for average risk securities?

A. Jeremy Siegel, a Wharton School finance professor, found that the average arithmetic and compound annual returns on U.S. equities have been 9.7 percent and 8.3 percent, respectively, using 199 years of data through 2001.²

Q. What do these historical returns suggest about the cost of equity capital?

- A. These historical returns suggest that an allowed ROE at or above 15.4 percent as proposed by the Applicant exceeds the arithmetic and compound average historical return on U.S. equities for the period studied by Professor Siegel.
- Q. What information is available to provide insight into the relationship between the required return on equity for a regulated water utility and the average return on the market?
- A. The average beta $(0.66)^3$ for a water utility is lower than the theoretical average beta for all stocks (1.0). This implies that the required return on equity for a regulated water utility is below the average required return on the market.

³ See Schedule AXR-5

² Siegel, Jeremy J. Stocks for the Long Run, third edition. McGraw-Hill, New York. 2002. p.13.

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Risk

Q. Please define risk.

Risk can be defined as the level of uncertainty which is inherent in a financial A. opportunity⁴. Risk is usually separated into two categories: market risk (also known as systematic risk) and non-market risk (also known as unique risk).

Q. What is market risk?

A. Market risk (systematic risk) is defined as the sensitivity of an investment's return to market returns. Market risk is related to the economy-wide perils that affect all business such as inflation, interest rates, and general business cycles. Market risk affects all stocks. But the impact on each company is not necessarily the same. Given that market risk affects all the stocks, this risk is non-diversifiable (it cannot be eliminated). Accordingly, market risk is the only risk that affects the cost of equity, and it is measured by beta. Beta reflects both the business risk and financial risk of a firm.

Q. What is non-market risk?

A. Non-market risk (unique risk) is the one which is uncorrelated across firms in the economy. Unique risk is related to the risk of an individual project or firm; therefore, it can be eliminated through diversification. Investors can eliminate unique risk by holding a diversified portfolio. Unique risk is not measured by beta, nor does it affect the cost of equity because these firm-specific risks can be eliminated through shareholder diversification.

⁴ Jacob, Nancy, Pettit, Richardson R. *Investments*, second edition. Irwin, Homewood. 1988. p.34.

Q. Do Investors require additional return to account for unique risk?

- A. No. Investors who hold diversified portfolios do not require additional return for unique risk because as mentioned earlier, non-market risk is eliminated through diversification. Because investors who choose to be less than fully diversified must compete in the market with fully diversified investors, the former cannot expect to be compensated for unique risk.
- Q. It was mentioned that beta includes both the business and the financial risk of a firm.

 How are business risk and financial risk defined?
- A. Business risk is that risk which is associated with the fluctuation in earnings due to the basic nature of a firm's business. Financial risk is that risk which affects shareholders due to a firm's reliance on debt financing.
- Q. Do both business and financial risk affect the cost of equity?
- A. Yes, they do.
- Q. What is the relationship between the capital structure of a firm and its financial risk?
- A. Financial risk is closely related to how a firm finances its assets (capital structure of the firm). A greater percentage of debt in a capital structure results in a higher level of financial risk, which in turns affects the cost of equity. As a firm increases its reliance on debt, it becomes more leveraged, increasing the firm's financial risk. Financial risk affects the cost of equity: as a firm becomes more leveraged, it becomes more risky. As the firm's risk increases, the firm's cost of equity also increases.

Q. How does Pineview's financial risk compare to the sample water companies' financial risk?

A. As discussed earlier, the Applicant's capital structure is very similar to the average capital structure of the sample water companies (Refer to schedule AXR-2). Therefore, Pineview's financial risk is about the same as that of the sample water companies' financial risk.

V. ESTIMATING THE COST OF EQUITY

Introduction

- Q. Did Staff directly estimate the cost of equity for the Applicant?
- A. No. Staff did not directly estimate Pineview's cost of equity for two reasons. First, the Applicant does not have publicly traded stock; therefore, the required information to estimate Pineview's cost of equity is not available. Second, any estimate of the cost of equity for a single company stock would likely contain a high degree of random fluctuations and thus be subject to considerable error. Using the average of a sample group gives a more reliable estimate. Accordingly, Staff used a sample of water utilities to estimate Pineview's cost of equity.

Q. What companies did Staff select as proxies or comparables for Pineview?

A. Staff selected six publicly traded water utilities shown on Schedule AXR-2. These companies represent the water utilities that are currently analyzed by *The Value Line Investment Survey Small and Mid Cap Edition* ("Value Line Small Cap") and *The Value Line Investment Survey* ("Value Line") that have a significant amount of revenues derived from regulated operations.

Q. What models did Staff implement to estimate Pineview's cost of equity?

A. As mentioned earlier, the cost of equity is determined by the market; therefore, Staff used two widely accepted and known market-based models to estimate the Applicant's cost of equity: the discounted cash flow ("DCF") model and the CAPM.

Q. Explain why Staff chose the DCF and CAPM market-based models?

A. Staff chose to use the DCF and CAPM models because they are widely recognized and used. Further explanation of these models is provided later in the following section of this testimony.

Discounted Cash Flow Model Analysis

Q. Please provide a brief summary of the theory upon which the DCF method of estimating the cost of equity is based.

A. The DCF method of estimating the cost of capital is based on the theory that the present value of a stock (current market price) is calculated the same way as it is for the present value of any other asset. In other words, the current market price of a stock (asset) is equal to the present value of all expected future dividends (cash flows).

In the 1960s, Professor Myron Gordon pioneered the use of the DCF method to estimate the cost of capital for a public utility. This model has become widely used due to its theoretical merit and its simplicity.

Through a mathematical formula, the discount rate, or cost of capital, can be estimated from the expected dividend, the market price, and a dividend growth rate. The formula is then applied to each company included in a sample that exhibits similar risk to the

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company whose cost of equity is being estimated. The results are averaged to arrive at the estimate of the cost of equity.

Q. How did Staff apply the DCF Model?

A. Staff applied two different versions of the DCF model. The first version of the DCF used by Staff is the constant-growth DCF Model. The second version is a multi-stage or non-constant growth DCF. The constant-growth DCF Model assumes that a company will grow at the same rate indefinitely. The main assumption and advantage in the non-constant growth DCF model is that it does not assume that dividends grow at a constant rate over time.

The Constant-Growth DCF

Q. What is the constant-growth DCF formula used in Staff's analysis?

A. The constant-growth DCF formula used in Staff's analysis is:

Equation 2:

$$K = \frac{D_1}{P_0} + g$$

where:

K = the cost of equity

 D_t = the expected annual dividend

 P_0 = the current stock price

g = the expected infinite annual growth rate of dividends

Equation 2 assumes that the company has a constant retention rate and that its earnings are expected to grow at a constant rate. Therefore, if a stock has a current market price of \$10 per share, an expected annual dividend of \$0.25 per share, and if its dividends were expected to grow 5 percent per year, then the cost of equity to the company would be 7.5 percent (the 2.5 percent dividend yield plus the growth rate of 5.0 percent per year).

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- Q. How did Staff calculate the dividend yield component (D₁/P₀) of the constant-growth DCF formula?
- A. Staff calculated the yield component of the DCF formula by dividing the expected annual dividend (D₁) by the spot stock price (P₀) after the close of the market on November 16, 2004, as reported by Yahoo Finance.
- Q. Why did Staff use the spot stock price rather than a historical average stock price to calculate the dividend yield component of the DCF formula?
- A. Staff used the current market stock price (spot stock price) rather than a historical average to be consistent with finance theory. According to the efficient market hypothesis, the current stock price includes investors' expectations of future returns and it is the best indicator of those expectations.
- Q. How did Staff estimate the dividend growth (g) component of the DCF model?
- A. Equation 2 shows that the DCF model depends on dividend growth (g). Staff used a combination of historical and projected dividend-per-share ("DPS") growth provided by Value Line. In addition, Staff also examined historical and projected growth in earningsper-share ("EPS") and intrinsic growth when estimating the dividend growth rate.
- Q. Why did Staff examine EPS growth to estimate the dividend growth component of the constant-growth DCF model?
- A. Staff took into account EPS growth (both historical and projected) when estimating the dividend growth component of the constant-growth DCF model because dividends are not independent of earnings. It would be unreasonable to assume that investors expect longterm dividend growth to exceed long-term earnings growth because it would lead to

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1 2 payout ratios in excess of 100 percent. Therefore, Staff considered historical and projected EPS growth when estimating expected dividend growth.

Staff estimated historical DPS growth by calculating the average rate of growth in DPS of

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How did Staff estimate historical DPS growth? Q.

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the sample water companies from 1993 to 2003. The results of the analysis are shown on Schedule AXR-3. Staff's analysis indicates an average historical DPS growth rate of 2.6

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percent for the sample water utilities.

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What DPS growth rate does *Value Line* project for the sample water utilities? Q.

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Value Line projects a 3.2 percent DPS growth rate for the sample water utilities, also

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What is Staff's historical EPS growth rate? Q.

shown in Schedule AXR-3.

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Schedule AXR-3 shows Staff's historical average rate of growth in EPS for the sample A. water utilities. Staff's average historical EPS growth rate is 1.5 percent for the period

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What EPS growth rate does *Value Line* project? Q.

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Value Line's projected EPS growth rate is 14.3 percent for the sample water utilities, as Α. shown in Schedule AXR-3. It is important to take into account that Analysts' projections

1993 to 2003.

of the future earnings are usually high⁵ and vary widely.

⁵ See Seigel, Jeremy J. Stocks for the Long Run. 2002. McGraw-Hill. New York. p. 100. Malkiel, Burton G. A. Random Walk Down Wall Street. 1999. W.W. Norton & Co. New York. p. 169. Dreman, David. Contrarian Investment Strategies: The Next Generation. 1998. Simon & Schuster. New York. pp. 97-98. Testimony of Professors Myron J. Gordon and Lawrence I. Gould, consultant to the Trial Staff (Common Carrier Bureau), FCC Docket 79-63, p. 95.

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Q. How was Staff's intrinsic growth rate calculated?

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the stock financing growth rate term (vs).

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Q. What is retention growth?

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A. Retention growth is the growth in dividends due to the retention of earnings. This concept is based on the theory that dividend growth will not be achieved unless the company

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retains and reinvests some of its earnings. In other words, retention growth rate is the

Staff's intrinsic growth rate was calculated by adding the retention growth rate term (br) to

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product of the retention ratio and the book/accounting return on equity. Retention growth

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is a component of Staff's intrinsic growth calculation.

retention growth rate for the years 1994 through 2003.

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Q. What is the formula for the retention growth rate?

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A. The retention growth rate formula is:

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Equation 3:

utilities?

Retention Growth Rate = br

where:

b = the retention ratio (1 – dividend payout ratio)

r = the accounting/book return on common equity

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Q. What historical retention (br) growth rate did Staff calculate for the sample water

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A. Staff calculated a historical average retention (br) growth of 3.1 percent for the sample

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water utilities, shown on Schedule AXR-4. This rate was calculated by averaging the

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Q. Does Value Line project retention growth?

A. Yes, it does. *Value Line* projects an average retention growth rate of 5.3 percent for the period 2007-2009 for the sample water utilities, as shown on Schedule AXR-4.

Q. When is the br growth a reasonable estimate of future dividend growth?

A. The br growth rate is a reasonable estimate of future dividend growth when the retention ratio is fairly constant and the company's market price to book value ("market-to-book ratio") is expected to be 1.0. The average retention ratio has been fairly constant over the past several years. However, the market to book ratio for the sample water utilities is higher than 1.0 (As shown is Schedule AXR-5, it is 2.3). Staff assumes that investors expect the market-to-book ratio to remain above 1.0.

Q. Is there any financial implication of a market-to-book ratio greater than 1.0?

A. Yes. A market-to-book ratio greater than 1.0 implies that investors expect the company to earn an accounting/book return on its equity higher than its cost of equity.

Q. How has Staff accounted for the assumption that investors expect the average market-to-book ratio of the sample water utilities to remain above 1.0?

A. Staff added a second growth term (stock financing growth rate or vs) to the br growth rate to account for the assumption that investors expect the average market-to-book ratio of the sample water utilities to remain above 1.0.

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What is stock financing growth?

existing common equity (s).

The stock financing growth formula is:

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Equation 4:

Stock Financing Growth = vs

What is the formula for the stock financing growth rate?

Stock financing growth is the growth in a company's dividends due to the sale of stock.

This term, derived by Myron Gordon in his book, The Cost of Capital to a Public Utility,

is the product of the fraction of the funds raised from the sale of stock that accrues to

existing shareholders (v) and the funds raised from the sale of stock as a fraction of the

where:

v = Fraction of the funds raised from the sale of stock that accruesto existing shareholders

s = Funds raised from the sale of stock as a fraction of the existing common equity

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How is the variable v presented above calculated? Q.

Variable v is calculated as follows: A.

⁶ Gordon, Myron J. The Cost of Capital to a Public Utility. MSU Public Utilities Studies, Michigan, 1974. pp 31-35.

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Equation 5:

$$v = 1 - \left(\frac{book\ value}{market\ value}\right)$$

For example, let's assume that a share of stock has a \$20 book value and is selling for \$25. Then, to find the value of v, the formula is applied:

$$v = 1 - \left(\frac{20}{25}\right)$$

In this example, v would be equal to 0.20. Staff found that the average v for the sample water utilities is 0.50.

Q. How is the variable s presented above calculated?

A. Variable s is calculated as follows:

Equation 6:

$$s = \frac{\text{Funds raised from the issuance of stock}}{\text{Total existing common equity before the issuance}}$$

For example, assume that a company has \$100 in existing equity, and it sells \$10 of stock. Then, to find the value of s, the formula is applied:

$$s = \left(\frac{10}{100}\right)$$

In this example, s would be equal to 10.0 percent. Staff found the average s for the sample water utilities to be 3.7 percent.

Q. What would happen to the vs term if the market-to-book ratio is equal to 1.0?

A. As mentioned earlier, when investors expect to earn a book/accounting return on their equity investment equal to the cost of equity, the market-to-book ratio will be equal to 1.0. If the market-to-book ratio is equal to 1.0, then the term v will equal zero (0.0), and consequently, the stock financing growth term will equal zero (0.0). In summary, when the market-to-book ratio is equal to 1.0, no funds raised from sale of stock will accrue to existing stock holders, and dividend growth will depend on the br term.

Q. How does the vs term work when the market-to-book ratio is higher than 1.0?

A. When investors expect a company to earn a book/accounting return on equity higher than its cost of equity, the market-to-book ratio will be higher than 1.0. In this case, the v term will be different from zero (0.0).

When new shares are issued and sold, the book value per share of outstanding stock is less than the contribution per share of the new stockholders. This excess per share contribution over the book value per share will accrue to existing stockholders in the form of a higher book value. The resulting higher book value leads to higher expected earnings and dividends.

Q. What is the vs estimate for the sample water utilities?

A. Staff estimated an average stock financing growth (vs) of 2.2 percent for the sample water utilities, as it is shown on Schedule AXR-4.

- Q. When investors expect the company to earn a book/accounting return on equity higher than its cost of equity, the market-to-book ratio is higher than 1.0. What would happen to a utility's market-to-book ratio if its authorized (book/accounting) ROE is set equal to its cost of equity?
- A. In theory, if a utility's authorized ROE is set equal to its cost of equity, the utility's market-to-book ratio should decline to 1.0. This implies that in the long-run, the vs term is unnecessary. However, in reality, rate orders might not force the market-to-book ratios to 1.0 for a variety of reasons. For example, the company might have sources of income that are not regulated, and regulatory commissions do not issue orders simultaneously for utilities that operate in different jurisdictions. Staff's inclusion of the vs term in its constant-growth DCF analysis might result in an over estimate of its intrinsic dividend growth rate and the resulting DCF estimate. Staff's DCF estimates are too high if investors expect the average market-to-book ratio of the sample water utilities' to fall to 1.0 due to falling authorized ROEs.

Q. What is Staff's intrinsic growth rate?

A. Staff estimated an intrinsic growth rate of 5.3 percent when using historical retention growth and an intrinsic growth rate of 8.4 percent when using retention growth projected by *Value Line*. Schedule AXR-4 presents Staff's estimates of the intrinsic growth rate.

Q. What is Staff's expected infinite annual growth rate in dividends?

A. Staff averaged historical and projected growth in dividends per share ("DPS"), earnings per share ("EPS"), and intrinsic growth to calculate the expected infinite annual growth rate in dividends. Schedule AXR-6 presents the calculation of the expected infinite annual growth rate in dividends. Staff's estimate is 5.9 percent.

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- Q. What is Staff's constant-growth DCF estimate?
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- Staff's constant-growth DCF estimate is 9.1 percent, which is shown on Schedule AXR-8. A.

Why did Staff implement the multi-stage DCF model to estimate Pineview's cost of

assumption that dividends may not grow at a constant rate. Staff's multi-stage DCF model

incorporates two growth rates: a near term growth rate and a long-term growth rate.

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- The Multi-Stage DCF
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- 5 equity? 6 A. As previously stated, Staff implemented the multi-stage DCF model to account for the

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- Equation 7:

What is the multi-stage DCF formula?

$$P_0 = \sum_{t=1}^n \frac{D_t}{(1+K)^t} + \frac{D_n(1+g_n)}{K-g_n} \left[\frac{1}{(1+K)}\right]^n$$

Where: P_0 = current stock price

 D_t = dividends expected during stage 1

 $K = \cos t \circ f$ equity

The multi-stage DCF formula is shown in the following equation:

n = years of non - constant growth

= dividend expected in year n

= constant rate of growth expected after year n g_n

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- expect dividends to grow at a non-constant rate in the near-term ("Stage -1 growth"), and

As mentioned above, Staff incorporated two growth rates. This assumes that investors

then to grow at constant rate in the long-term ("Stage-2 growth").

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Q. What is Staff's multi-stage DCF estimate?

A. Staff's multi-stage DCF estimate is 9.5 percent, as shown on Schedule AXR-7.

Q. How did Staff implement the multi-stage DCF model to find the cost of equity?

A. First, Staff forecasted a stream of dividends for each of the sample water utilities. The forecasted stream of dividends was calculated based on two different growth rates (near-term growth and long-term growth). Second, given the current stock price for each of the sample water utilities, Staff found the rate (cost of equity) which equates the present value of the stream of dividends to the current stock price.

Q. How did Staff calculate stage-1 growth (near-term growth)?

A. Staff forecasted four years of dividends for each of the sample water utilities using expected dividends over the next twelve months for the first year and *Value Line*'s projected DPS growth rate for the subsequent years (Refer to Schedule AXR-7).

Q. How did Staff estimate stage-2 growth (long-term growth)?

A. Staff used the rate of growth in gross domestic product ("GDP") from 1929 to 2003. This historical growth is appropriate because it assumes that the water utility industry is expected to grow neither faster, nor slower, than the overall economy.

What is the historical growth in GDP that Staff used to estimate stage-2 growth?

The historical growth in GDP that Staff used to estimate stage-2 growth is 6.5 percent

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Staff's overall DCF estimate is 9.3 percent, as shown in Schedule AXR-8. Staff's overall DCF estimate was calculated by averaging Staff's constant growth DCF and Staff's multistage DCF estimates.

Capital Asset Pricing Model

Q. Please describe the capital asset pricing model.

What is Staff's overall DCF estimate?

The CAPM is the best known model of risk and return. This model is concerned with the A. determination of prices of capital assets in a competitive market. An important assumption of the CAPM is that investors are risk adverse—they require a greater return for bearing greater risk. This model also assumes that investors diversify because it allows them to reduce the level of risk exposure for a given level of expected return.⁷ In 1990, Professors Harry Markowitz, William Sharpe, and Merton Miller earned the Nobel Prize in Economic Sciences for their contribution to the development of the CAPM.

⁷ The CAPM also assumes the following: 1. Single holding period 2. Perfect and competitive securities market 3. No transaction costs 4. No restrictions on short selling or borrowing 5. The existence of a risk-free rate 6. Homogeneous expectations.

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Q. What is the CAPM formula?

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A. The CAPM formula is shown in the following equation:

Equation 8:

$$K = R_f + \beta (R_m - R_f)$$

where:

 R_f = risk free rate

 R_m = return on market

 β = beta

 $R_m - R_f = \text{market risk premium}$

K = expected return

Mathematically represented, the expected return on a risky asset is equal to the prevailing risk-free interest rate plus the market risk premium which is adjusted for the riskiness (beta) of the investment relative to the market.

Q. What does beta measure?

A. Beta measures the systematic risk of a company. As stated previously, systematic risk is the only form of risk that is relevant when estimating a company's required return because it is the only risk that cannot be eliminated through diversification. The market's beta is 1.0; therefore, a security with a beta higher than 1.0 is riskier than the market, and a security with a beta lower than 1.0 is less risky than the market.

Q. How was the CAPM implemented to estimate Pineview's cost of equity?

A. Staff implemented the CAPM on the same sample water utilities used in Staff's DCF analysis.

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Q. What risk-free rate of interest did Staff estimate?

A. Staff calculated an estimate of the risk-free rate of interest by averaging intermediate-term U.S. Treasury securities' spot rates published in *The Wall Street Journal*. Staff averaged the vields-to-maturity of three intermediate-term⁸ (five-, seven, and ten-year) U.S. Treasury securities published in the November 17th, 2004, edition of *The Wall Street* Journal. Staff estimated the risk-free rate to be 3.9 percent. 9

Why did Staff use U.S Treasury security spot rates to calculate an estimate of the Q. risk-free rate?

Staff used U.S. Treasury securities' spot rates published in The Wall Street Journal A. because they are verifiable, objective and readily available.

What beta (β) did Staff use? Q.

Staff estimated Pineview's beta (β) to be 0.66. Staff averaged the Value Line betas of the A. sample water utilities and used this average as a proxy for Pineview's beta. Schedule AXR-5 shows the *Value Line* betas for each of the sample water utilities.

What is the expected market risk premium $(R_m - R_f)$? Q.

The expected market risk premium is the additional amount of return over the risk-free A. rate that investors expect to receive from investing in the market (or an average-risk

⁸ The use of intermediate-term securities is based on the theoretical specification that the time to maturity approximates the investor's holding period, and assumes that most investors consider the intermediate time frame (5-10 years) a more appropriate investment horizon. See Reilly, Frank K., and Keith C. Brown. Investment Analysis and Portfolio Management. 2003. South-Western. Mason, OH. p. 439.

Average yield on 5-, 7-, and 10-year Treasury notes according to the November 17th, 2004, edition of *The Wall* Street Journal: 3.56%, 3.86%, and 4.21%, respectively.

security). Staff used two approaches to calculate the market risk premium: the historical market risk premium approach and the current market risk premium approach.

In this approach, Staff assumed that if one consistently uses the long-run average market

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Q. Could you describe the historical market risk premium estimate approach?

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risk premium to estimate the expected market risk premium, one should, on average, be correct. In this approach Staff assumed that the average historical market risk premium

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estimate is a reasonable estimate of the expected market risk premium.

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Q. How did Staff calculate the historical market risk premium?

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A. For the market risk premium estimate, Staff used the intermediate-horizon equity risk premium published in the Ibbotson Associates' *Stocks, Bonds, Bills, and Inflation 2003*

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Yearbook for the period 1926-2002. Ibbotson Associates calculated the historical risk

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premium by averaging the historical arithmetic differences between the S&P 500 and the

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intermediate-term government bond income returns. Staff's historical market risk

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premium estimate is 7.6 percent.

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Q. How did Staff calculate the current market risk premium estimate?

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A. In this approach, Staff found a DCF-derived ROE using the expected dividend yield (over

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the next twelve months) and growth that *Value Line* projects for all dividend-paying stocks under its review (November 12, 2004). Given the DCF-derived ROE, the market's

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average beta of 1.0 and the current long-term risk-free rate, Staff used the CAPM formula

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to solve for the implied current market risk premium.

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According to the November 12, 2004, edition of *Value Line*, the expected dividend yield is 1.6 percent and the expected annual growth in share price is 9.73 percent.¹⁰ Therefore, the constant-growth DCF estimate of the cost of equity to all dividend-paying stocks followed by *Value Line* is 11.33 percent (9.73 percent + 1.6 percent). The current market risk premium implied by the CAPM equation using the yield on the 30-year Treasury note (4.90 percent) is 6.43 percent.¹¹

- Q. What is Staff's expected market risk premium estimate?
- **A.** Staff's market risk premium estimate is 6.4 percent to 7.6 percent.
- Q. What is the result of Staff's CAPM analysis?
- A. Staff's overall CAPM estimate is 8.5 percent, as shown in Schedule AXR-8. Staff's overall CAPM estimate was calculated by averaging Staff's historical market risk premium CAPM (8.9 percent) and the current market risk premium CAPM (8.1 percent) estimates.

VI. FINDINGS OF STAFF'S COST OF EQUITY ANALYSIS

- Q. What is the result of Staff's constant-growth DCF analysis?
- **A.** Schedule AXR-8 shows the result of Staff's constant-growth DCF Analysis. The result of Staff's constant-growth DCF analysis is as follows:

$$k = 3.2\% + 5.9\%$$

$$k = 9.1\%$$

 $^{^{10}}$ 3 to 5 year price appreciation potential is 45%. $1.45^{1/4}$ - 1 = 9.73%

 $^{^{11}}$ 11.33% = 5.22% + (1) (6.11%)

Staff's constant-growth DCF estimate of the cost of equity to the sample water utilities is 9.1 percent.

Q. What is the result of Staff's multi-stage DCF analysis?

A. Schedule AXR-7 shows the result of Staff's multi-stage DCF Analysis. The result of Staff's multi-stage DCF analysis is:

Company	Equity Cost
	Estimate (k)
American States Water	9.8%
California Water	9.7%
Aqua America	8.7%
Connecticut Water	9.6%
Middlesex Water	9.9%
SJW Corp	9.2%
Average	9.5%

Staff's multi-stage DCF estimate of the cost of equity to the sample water utilities is 9.5 percent.

Q. What is Staff's overall DCF estimate?

A. Staff's overall DCF estimate is 9.3 percent, as shown in Schedule AXR-8. Staff's overall DCF estimate was calculated by averaging Staff's constant growth DCF and Staff's multistage DCF estimates.

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Q. What is Staff's overall CAPM estimate?

sample water utilities is 8.1 percent.

21 Staff's overall CAPM estimate is 8.5 percent, as shown in Schedule AXR-8. Staff's Α. 22 overall CAPM estimate was calculated by averaging Staff's historical market risk 23 premium CAPM (8.9 percent) and the current market risk premium CAPM (8.1 percent) 24 estimates.

Q. What is the result of Staff's CAPM analysis using the historical market risk premium estimate?

Schedule AXR-8 shows the result of Staff's CAPM analysis using the historical risk A. premium estimate. The result is as follows:

$$k = 3.9\% + 0.66*(7.6\%)$$

$$k = 8.9\%$$

Staff's CAPM estimate (using the historical market risk premium) of the cost of equity to the sample water utilities is 8.9 percent.

What is the result of Staff's CAPM analysis using the current market risk premium Q. estimate?

A. Schedule AXR-8 shows the result of Staff's CAPM Analysis using the current market risk premium estimate. The result is:

Staff's CAPM estimate (using the current market risk premium) of the cost of equity to the

$$k = 3.9\% + 0.66*(6.4\%)$$

$$k = 8.1\%$$

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Q. Please summarize the results of Staff's cost of equity analysis.

A. The following table shows the results of Staff's cost of equity analysis:

Table 2

Method	Estimate
Average DCF Estimate	9.3%
Average CAPM Estimate	8.5%
Overall Average	8.9%

Staff's average estimate of the cost of equity to the sample water utilities is 8.9 percent.

VII. FINAL COST OF EQUITY ESTIMATES FOR PINEVIEW

- Q. Does Pineview's cost of equity depend on its capital structure?
- A. Yes, it does. It was mentioned previously in this testimony that as a company increases its leverage (debt), its cost of equity increases. The average capital structure for the sample water utilities is composed of 49.9 percent equity and 50.1 percent debt, as shown on Schedule AXR-2. As mentioned previously, Staff's recommended capital structure for the Applicant in this proceeding consists of 49.0 percent debt and 51.0 percent equity. Therefore, Pineview's stockholders bear similar financial risk to that of the water sample utilities.

Q. What is Staff's ROE recommendation for Pineview?

A. Staff estimated an 8.9 percent ROE for the Applicant based on cost of equity estimates ranging from 8.5 percent (CAPM) to 9.3 percent (DCF).

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VIII. RATE OF RETURN RECOMMENDATION

Q. What is Staff's overall rate of return recommendation for Pineview?

A. Staff recommends a ROR of 7.2 percent for the Applicant, as shown in Schedule AXR-1 and the following table:

Table 3

	Weight	Cost	Weighted Cost
Long-term Debt	49.0%	5.43%	2.7%
Common Equity	51.0%	8.9%	<u>4.5%</u>
Cost of Capital/ROR			7.2%

CONCLUSION

- Q. Please summarize Staff's recommendations.
- A. Staff recommends that the Commission adopt a capital structure for Pineview in this proceeding composed of 49.0 percent long-term debt and 51.0 percent equity.
 - Staff also recommends that the Commission to adopt a 7.2 percent ROR for the Applicant, which is based on Pineview's cost of debt of 5.43 percent and Staff's cost of equity estimates that range from 8.5 percent to 9.3 percent.
- Q. Does this conclude your direct testimony?
- A. Yes, it does.

Pineview Water Company, Inc. Staff's Recommended Capital Structure And Weighted Cost of Capital

_		
[a]	Weighted <u>Cost</u>	2.7% 4.5% 7.2%
[]	Cost	5.43% 8.9%
[8]	Weight (%)	49.0% 51.0%
[A]	Description	Long-term Debt Common Equity Weighted Average Cost of Capital/ROR

Supporting Schedules: Schedule AXR-2, Schedule AXR-8

Pineview Water Company, Inc. Average Capital Structure of Sample Water Utilities

[A]	[8]	[0]	[D]
Company	Long-Term <u>Debt</u>	Common <u>Equity</u>	Total
American States Water California Water	50.1% 50.5%	49.9% 49.5%	100.0%
Aqua America Connecticut Water	52.8% 43.5%	47.2% 56.5%	100.0% 100.0%
Middlesex Water SJW Corp	55.7% 46.9%	44.3% 53.1%	100.0% 100.0%
Average Sample Water Utilities	49.9%	50.1%	100.0%
Pineview Water Company, Inc.	49.0%	51.0%	100.0%

Source: Value Line, Pineview's application

Pineview Water Company, Inc. Growth in Earnings and Dividends Sample Water Utilities

[A]	[8]	[5]	[0]	(E)
Company	Dividends Per Share 1993 to 2003 <u>DPS</u>	Dividends Per Share Projected <u>DPS</u>	Earnings Per Share 1993 to 2003 <u>EPS</u>	Earnings Per Share Projected <u>EPS</u>
American States Water California Water Aqua America Connecticut Water Middlesex Water SJW Corp	1.1% 1.6% 1.3% 2.5% 3.6%	1.8% 1.0% 6.8% No Projection No Projection	-4.2% -1.1% 8.7% -0.9% 4.2%	22.7% 10.6% 9.6% No Projection No Projection
Average Sample Water Utilities	2.6%	3.2%	1.5%	14.3%

Source: Value Line

Pineview Water Company, Inc. Intrinsic Growth Sample Water Utilities

[A]	[B]	[5]	[0]	Ξ	[1]	Γ
	Retention Growth 1994 to 2003	Retention Growth Projected	Stock Financing Growth	Intrinsic Growth 1994 to 2003	Intrinsic Growth Projected	
Company	<u>p</u> r	, 희	NS NS	br + vs		
American States Water	2.5%	5.5%	1.1%	3.6%	%9'9	
California Water	2.5%	4.5%	1.4%	4.0%	2.9%	
Aqua America	4.0%	%0.9	8.9	10.8%	12.8%	
Connecticut Water	3.0%	No Projection	%9.0	3.5%	No Projection	
Middlesex Water	1.7%	No Projection	3.6%	5.3%	No Projection	
SJW Corp	4.8%	No Projection	<u>0.0%</u>	4.8%	No Projection	
Average Sample Water Utilities	3.1%	5.3%	2.2%	5.3%	8.4%	

Source: Value Line, MSN Money

Pineview Water Company, Inc. Selected Financial Data of Sample Water Utilities

[9]	Raw	$\frac{\beta raw}{0.52}$	0.52	09.0	0.45	0.37	0.30	0.46
E	Value Line Reta	$\overline{\beta}$	0.70	0.75	0.65	09.0	0.55	99.0
	Mkt To	Book 17	2.0	3.1	2.4	2.6	2.0	2.3
[0]	Book Value	11/16/04 14 57	15.63	7.50	10.69	7.42	18.21	
[0]	Spot Drice	11/16/04 24 66	30.96	23.55	25.58	18.97	36.33	
[8]		Symbol	CWT	WTR	CTWS	MSEX	SJW	
[A]		Company American States Water	California Water	Aqua America	Connecticut Water	Middlesex Water	SJW Corp	Average

Source: Msn Money, Value Line

Pineview Water Company, Inc. Calculation of Expected Infinite Annual Growth in Dividends Sample Water Utilities

[8]	O)	2.6%	3.2%	1.5%	14.3%	5.3%	8.4%	5.9%	
[A]	Description	DPS Growth - Historical	DPS Growth - Projected	EPS Growth - Historical	EPS Growth - Projected	Intrinsic Growth - Historical	Intrinsic Growth - Projected	Average	

Supporting Schedules: Schedule AXR-3 and Schedule AXR-4

Pineview Water Company, Inc. Multi-Stage DCF Estimates Sample Water Utilities

[A]	[8]	<u>ত</u>	<u>[</u>	Ш	Œ	Ξ	E
Company	Current Mkt. Price (P _a)	Projec	ted Dividenc	Projected Dividends $^{+}$ (stage 1 growth) (\underline{D}_{1})	rowth)	Stage 2 growth² (g _a)	Equity Cost Estimate (K)
		φ	q_2	ဝိ	ď,		
American States Water	24.7	06.0	0.92	0.94	96.0	6.5%	%8'6
California Water	31.0	1.13	1.15	1.16	1.18	6.5%	9.7%
Aqua America	23.6	0.52	0.56	09.0	0.64	6.5%	8.7%
Connecticut Water	25.6	0.85	0.88	0.91	0.95	6.5%	%9.6
Middlesex Water	19.0	0.70	0.72	0.75	0.78	6.5%	6.6%
SJW Corp	36.3	1.07	1.10	1.14	1.18	6.5%	9.2%

9.5% Average

$$P_0 = \sum_{t=1}^n \frac{D_t}{(1+K)^t} + \frac{D_n(1+g_n)}{K-g_n} \left[\frac{1}{(1+K)}\right]^n$$

= current stock price Where: P_0 = dividends expected during stage 1

= cost of equity

= years of non - constant growth

= dividend expected in year n D_n

= constant rate of growth expected after year n

Pineview Water Company, Inc. Final Cost of Equity Estimates Sample Water Utilities

[A]	[8]		[]		[0]		(E)	
Constant Growth DCF Constant Growth DCF Estimate Multi-Stage DCF Estimate Average of DCF Estimates			D₁/P ₀ 3.2%	+ +	න ද ද.ඉ%	H (I II	<u>k</u> 9.1% 9.5% 9.3%	
CAPM Method Historical Market Risk Premium Current Market Risk Premium Average of CAPM Estimates	3.9% 3.9%	+ + +	<u>B</u> 0.66 0.66	* × ×	(Rp) 7.6% 6.4%	H II II	8.9% 8.1% 8.5%	
					Average		8.9%	

Source: The Wall Street Journal, Value Line, Ibbotson Associates SBBI 2004 Yearbook

Supporting Schedules: Schedule AXR-7

JOHNSON

BEFORE THE ARIZONA CORPORATION COMMISSION

JEFF HATCH-MILLER

Chairman
WILLIAM A. MUNDELL
Commissioner
MARC SPITZER
Commissioner
MIKE GLEASON
Commissioner KRISTIN K. MAYES
Commissioner
Commissioner
IN THE MATTER OF THE APPLICATION OF) DOCKET NO. W-01676A-04-0463
PINEVIEW WATER COMPANY, INC. FOR)
AUTHORIZATION OF LONG-TERM)
FINANCING)
DIRECT
TECTIMONIA
TESTIMONY
OF
J. H. JOHNSON
PUBLIC UTILITIES ANALYST III

JANUARY 20, 2005

UTILITIES DIVISION

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EXECUTIVE SUMMARY PINEVIEW WATER COMPANY, INC. DOCKET NO. W-01676A-04-0463

The direct testimony of Staff witness J. H. Johnson addresses the following issues:

<u>Request for Debt Financing Authorization</u> - Staff recommends granting authorization to incur \$577,578 of the requested \$730,978 in new long-term debt financing subject to implementation of Staff's recommended rates.

Direct Testimony of J. H. Johnson Docket No. W-01676A-04-0463 Page 1

INTRODUCTION

A.

- Q. Please state your name, occupation, and business address.
- A. My name is James H. Johnson. I am a Public Utilities Analyst III employed by the Arizona Corporation Commission ("ACC" or "Commission") in the Utilities Division ("Staff"). My business address is 1200 West Washington Street, Phoenix, Arizona 85007.

Q. Briefly describe your responsibilities as a Public Utilities Analyst III.

A. In my capacity as a Public Utilities Analyst III, I provide recommendations to the Commission on mergers, acquisitions, financings and asset sales and other ratemaking issues.

Q. Please describe your educational background and professional experience.

I am a graduate of Utah State University with a Bachelor of Science degree in Economics and a minor in Business Administration. My courses of study included accounting, statistics, money and banking, business management, and economics. I have also completed training offered by Robert Morris Associates (the national association of commercial loan officers), the American Institute of Banking (Advanced Certificate), the Conference of State Bank Supervisors, and the Office of Thrift Supervision. I have been employed by banks, financial institutions, the Arizona State Banking Department, and the Commission for a total of over 38 years. Principal responsibilities have included branch management, commercial lending, loan officer supervision, consumer lending, bank and franchise financial analysis, bank examination, loan workouts, and customer portfolio management. I have been an adjunct instructor at San Juan College in Farmington, New Mexico teaching Economics for Bankers, Consumer Lending, and Real Estate Finance.

Docket No. W-01676A-04-0463 Page 2 What is the purpose of your testimony in this case? 1 Q. 2 The purpose of my testimony is to present Staff's recommendations regarding Pineview A. 3 Water Company, Inc.'s request for authorization to issue long-term debt in the form of a \$577,578 twenty-year fully amortizing loan from the Water Infrastructure Finance 4 5 Authority ("WIFA"). 6 7 Q. Was this testimony prepared by you? 8 Yes. A. 9 10 Briefly summarize how the remainder of Staff's financing authorization testimony is Q. 11 presented. 12 Testimony is presented in the form of a memorandum to Staff witness Elena Zestrijan. A. 13 That memorandum is attached as Exhibit A. Exhibit A presents the purpose of the 14 financing, a description of the financing, a financial analysis, and Staff's 15 recommendations. 16 17 What is Staff's recommendation regarding the financing request? Q. 18 Staff recommends authorization to obtain \$577,578 of long-term debt financing on the A. 19 terms and conditions consistent with or better than those used in Staff's pro forma 20 analysis, subject to establishment of rates that provide Staff's recommended operating 21 income. 22 23 Does this conclude your direct testimony? Q. 24 Yes, it does. A.

Direct Testimony of J. H. Johnson

Pineview Water Company, Inc. Application for Financing Authorization Page 1

EXHIBIT A MEMORANDUM

TO:

Elena Zestrijan

Public Utilities Analyst III

Financial and Regulatory Analysis Section, Utilities Division

FROM:

J. H. Johnson

Public Utilities Analyst III

Financial and Regulatory Analysis Section, Utilities Division

DATE:

January 10, 2005

RE:

PINEVIEW WATER COMPANY, INC.

DOCKET NO. W-01676A-04-0463

Introduction

Pineview Water Company, Inc. ("Pineview" or "Company") filed a Financing Application on June 18, 2004, with the Arizona Corporation Commission ("Commission") for authorization to borrow \$730,798.

On June 18, 2004, Pineview filed a tariff with the Commission seeking approval to implement an Off-site Facilities Hook-up Fee Tariff of \$1,500 for all new 5/8 by ¾-inch service connections. Pineview plans to use the tariff revenues for debt service. On July 9 the Commission issued Decision No. 67106 suspending the tariff filing through and including September 29, 2004.

On July 9, 2004, Pineview filed an application for an increase in its rates.

On October 5, 2004, the Commission issued Decision No. 67275 authorizing an offsite facilities hookup fee tariff that provided for fees by meter size based on the National Association of Regulatory Utility Commissioners multipliers (NARUC meter factors). For a 5/8 by ¾ inch meter, Decision No. 67275 approved a hook-up fee of \$500

On December 7, 2004, Staff filed a motion to consolidate the rate case and the financing case. Pineview does not opposing the consolidation motion.

Notice

Pineview published Notice in the White Mountain Independent on July 2, 2004, and provided Staff with a copy of the Notice and affidavit of the publisher. A copy of that published

Pineview Water Company, Inc. Application for Financing Authorization Page 2

notice is attached along with a copy of the notice the Company mailed to all customers receiving service.

Background

Pineview was formed in 1957 as a for-profit Arizona perpetual corporation. Pineview is located in Navajo County, Arizona, southeast of the Town of Show Low. The Company serves a 2.5 square mile certificated area and has 936 metered customers.

Purpose of Financing

Pineview proposed to use the proceeds of its \$730,978 borrowing to construct an additional well and additional storage and transmission facilities. Pineview also asks that authorization be given for the reasonable charging of loan funds to operating expenses or income.

Description of Proposed Financing

The loan as requested by the Company would be a \$730,978 twenty-year fully amortizing loan obtained from the Water Infrastructure Finance Authority ("WIFA") at 4.20 percent with monthly debt service of \$4,507.

Financial Analysis

Schedule JHJ-1 presents historical financial information for the year ended December 31, 2003 in Column A. Column B presents financial information as adjusted by Staff in the rate case and the imposition of a \$577,578¹ loan over twenty years at 5.60 percent. This interest rate represents the current prime rate plus 2 percent times the current subsidy rate of 80 percent. The subsidy rate may differ slightly at loan closing.

The resulting times interest earning ratio ("TIER") and debt service coverage ratio "DSC") are 1.14 and 1.99, respectively. These results are based on Staff's pro forma financial information and assume that Pineview will not incur expenses that have been disallowed by Staff in the rate proceeding.

TIER represents the number of times earnings cover interest expense on long-term debt. A TIER greater than 1.0 means that operating income is greater than interest expense. A TIER less than 1.0 is not sustainable in the long term but does not mean that debt obligations cannot be met in the short term.

¹ Staff recommends approval of \$577,578 of the proposed \$730,978 capital improvements.

Pineview Water Company, Inc. Application for Financing Authorization Page 3

DSC represents the number of times internally generated cash will cover required principal and interest payment on long-term debt. A DSC greater than 1.0 indicates that operating cash flow is sufficient to cover debt obligations. A DSC less than 1.0 means that debt service obligations cannot be met by cash generated from operations and that another source of funds is needed to avoid default.

Schedule JHJ-1 shows a pro forma capital structure resulting from a \$577,578 loan consisting of 3.3 percent short-term debt, 68.2 percent long-term debt and 28.5 percent equity. This capital structure is highly leveraged limiting Pineview's capacity for additional debt financing.

Staff Conclusions and Recommendations

The Staff Engineering Report concludes that only \$577,578 of the expenditures are necessary for the continuation of service to present customers and that existing wells will provide an adequate source of water for the foreseeable future.

Staff concludes that Pineview can support \$577,578 in new long-term debt with implementation of recommended rates and a reduction in expenses consistent with Staff recommendations.

Staff further concludes that use of loan proceeds for operating expenses or income is an inappropriate use of the funds.

Staff further concludes that issuance of debt in the amount of \$577,578 is within Pineview's corporate powers, compatible with the public interest; compatible with sound financial practices, and will not impair its ability to perform service.

Staff recommends authorization to obtain \$577,578 of long-term debt financing on the terms and conditions consistent with or better than those used in Staff's pro forma analysis subject to establishment of rates that provide Staff's recommended operating income.

Staff further recommends approval of granting of liens in favor of the lender as required to secure the borrowings authorized.

Staff further recommends denial of Pineview's request to use loan funds for operating expenses or income.

Staff further recommends authorizing Pineview to engage in any transaction and to execute any documents necessary to effectuate the authorizations granted.

Staff further recommends that Pineview be ordered to file copies of all executed financing documents with Docket Control within 90 days of loan closing.

Pineview Water Company, Inc. Docket No. W-01676A-04-0463 Application For Financing

FINANCIAL ANALYSIS

Selected Financial Data Including Immediate Effects of the Proposed Debt

			[A]		[B]	
		-	<u>12/31/2003</u>	-	Pro Forma	
				Sta	iff Recommended	d
1	Operating Income	\$	(20,030)		\$ 48,230	
2	Depreciation & Amort.		44,684		83,046	
3	Income Tax Expense		0		7,976	
4						
5	Interest Expense		16,328		49,413	
6	Repayment of Principal		29,600		45,374	
7						
8						
9	TIER		4.00		4.4.4	
10	[1+3] ÷ [5]		1.80		1.14	
11	DSC				4.00	
12	[1+2+3] ÷ [5+6]		0.89		1.99	
13						
14						
15						
16						
17	Ol cold to Dolah		\$00.000	2.70/	¢4E 274	3.3%
18	Short-term Debt		\$29,600	3.7%	\$45,374	3.3%
19	Laura tauma Daht		#202 620	47.4%	\$945,424	68.2%
20	Long-term Debt		\$383,620	47.470	Φ940,424	00.2 /6
21 22	Common Equity		\$395,345	48.9%	\$395,345	28.5%
23	Common Equity		φ393,343	40.976	ψυθυ,υ4υ	20.570
23 24	Total Capital		\$808,565	100.0%	\$1,386,143	100.0%
2 4 25	τοιαι Θαριιαι		ψυυυ,υυυ	100.076	ψ1,000,170	100.070
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PINEVIEW WATER COMPANY

By: Ronald L. M. Donald

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1.8

Ron McDonald

The foregoing instrument was acknowledged before me this \(\frac{1}{N} \) day of October 2004,

by Ron McDonald

My Commission Expires:

Blc Ky LM Cullough



36100-00000.85

State of Arizona

\$\$.

County Of Navajo

PUBLIC NOTICE

AN APPLICATION FOR AN ORDER AUTHORIZING THE ISSUANCE OF PROMISSORY NOTE(S) AND OTHER EVIDENCE OF INDERFEDILESS

PINEVIEW WATER COMPANY, INC. Pitreview, Water Company, Inc. (Applicant) has filed an Application with the Arizona Corporation Commission (Commission) for an order authorizing Applicant to Issue up to \$730,796 in promissory notes and other evidence

of indebteaneas.
In addition, Pineview Water Company, Inc. (Applicant) has filed an Application with the Arizona Corporation Commission (Commission) for an order authorizing Applicant to add "Hook-Up" fees to the company's Tariff

Schedule.

The Applications are available for inspection during requiar business hours at the offices of the commission in Phoenix. Arizone, and Applicant's offices at 6108 Cub Lake Road, Show Low, Arizone 85501.

Intervention in the Commission's proceedings on the Application shall be permitted to any person entitled by law to intervene and having a direct substantial interest in this metter. Persone desiring to intervene must file a Motion to intervene with the Commission which must be served upon the Applicant and which at a minimum. served upon the Applicant and which, at a minimum, shall contain the following information:

The name, address and telephone of the proposed intervenor and of any person upon whom service of documents is to be made if different than the intervenor.

2. A short statement of the proposed intervenor's Inte

in the proceedings.

3. Whether the proposed intervenor desires a formal exidentiary hearing on the Application and the reasons

evidentiary hearing on the Application and the reasons for such a hearing.

A. A statement certifying that a copy of the Motion to intervene has been imaked to Applicant.

The granting of Motions to Intervene shall be governed by AAC. P.14-S-105, except that all Motions to Intervene must be filled on, or before, the 15th day after this notice. If you have any questions or concerns about this application or have any objections to its approval or wish to make a statement in support of it, you may contact the Consumer Services Section of the Conmission at 1200 West Washington, Phoenix, Arizona 85007, 400 W. Congress Street, Tucson, Arizona 85007, do W. Congress Street, Tucson, Arizona 85007, or call 1-800-222gress Street, Tucson, Arizona 85007, 400 W. Congress Street, Tucson, Arizona 85701 or call 1-800-222-7000.

Published in the White Mountain Independent July 2, 2004 (WMI 8218, N, 1x, 7/2/2004)

Affidavit of Publication

White Mountain Independent

I, Jackie Hostler. being first duly sworn, depose and say: I am the agent of the White Mountain Publishing Company, publisher of the White Mountain Independent, a semiweekly newspaper of general circulation published at Show Low, County of Navajo, Arizona and that the copy hereto attached is a true copy of the advertisement as published in the White Mountain Independent on the following dates:

July 2, 2004

White Mountain Independent

Sworn to me this day of

A.D. 2004



5372180



HAINS

BEFORE THE ARIZONA CORPORATION COMMISSION

Chairman		
WILLIAM A. MUNDELL		
Commissioner		
MARC SPITZER		
Commissioner		
MIKE GLEASON		
Commissioner		
KRISTIN K. MAYES		
Commissioner		
IN THE MATTER OF THE APPLICATIONS OF)	DOCKET NO. W-

JEFF HATCH-MILLER

IN THE MATTER OF THE APPLICATIONS OF DOCKET NO. W-01676A-04-0500 PINEVIEW WATER COMPANY, (RATE)
AN ARIZONA CORPORATION, FOR A RATE DOCKET NO. W-01676A-04-0463 INCREASE & FINANCING (FINANCING)

DIRECT TESTIMONY

OF

DOROTHY HAINS

UTILITIES ENGINEER

UTILITIES DIVISION

JANUARY 20, 2005

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SCHEDULES	
Engineering Report for Pineview Water Company EXHIBIT	Γ-1

Testimony of Dorothy Hains Docket No. W-01676A-04-0500 Page 3 **INTRODUCTION** 2 Q. Please state your name and business address. 3 My name is Dorothy Hains. My business address is 1200 West Washington Street, Phoenix, A. Arizona 85007. 4 5 6 By whom and in what position are you employed? Q. 7 I am employed by the Arizona Corporation Commission ("Commission" or "ACC") as a A. 8 Utilities Engineer - Water/Wastewater in the Utilities Division. 9 How long have you been employed by the Commission? Q. 10 11 A. I have been employed by the Commission since January 1998. 12 What are your responsibilities as a Utilities Engineer - Water/Wastewater? 13 Q. My main responsibilities are to inspect, investigate and evaluate water and wastewater 14 Α. systems. This includes obtaining data, preparing reconstruction cost new and/or original cost 15 studies, cost of service studies and investigative reports, interpreting rules and regulations, 16 17 and to suggest corrective action and provide technical recommendations on water and wastewater system deficiencies. I also provide written and oral testimony in rate cases and 18 19 other cases before the Commission. 20 21 Q. How many companies have you analyzed for the Utilities Division? I have analyzed approximately 81 companies covering these various responsibilities. 22 A. 23 Have you previously testified before this Commission? 24 Q. Yes, I have testified before this Commission. 25 A. 26 27 28

Testimony of Dorothy Hains Docket No. W-01676A-04-0500 Page 4 Q. What is your educational background? 2 I graduated from Alabama University in Birmingham in 1987 with a Bachelor of Science A. 3 degree in Civil Engineering. 5 Briefly describe your pertinent work experience. Q. 6 A. Before my employment with the Commission, I was an Environmental Engineer for the 7 Arizona Department of Environmental Quality, for ten years. Prior to that time, I was an 8 Engineering Technician with C. F. Hains, Hydrology in Northport, Alabama for 9 approximately five years. 10 Q. Please state your professional membership, registrations, and licenses. 11 I am a member of the American Society of Civil Engineering ("ASCE") and American Water 12 A. 13 Works Association ("AWWA"). I am a registered Civil Engineer in Arizona. 14 **PURPOSE OF TESTIMONY** 15 16 Q. What was your assignment in this rate proceeding? My assignment was to provide the Utilities Division Staff's ("Staff") engineering evaluation 17 A. of the Pineview Water Company ("Pineview" or "Company"). 18 19 What is the purpose of your testimony in this proceeding? 20 Q. 21 To present the findings of Staff's engineering evaluation of Pineview's operation. Those A. findings are contained in the Engineering Report that I have prepared for this proceeding. 22 23 This report is included as Exhibit-1, in this pre-filed testimony. 24 25 26 27 28

Testimony of Dorothy Hains Docket No. W-01676A-04-0500 Page 5

ENGINEERING REPORT

- Q. Would you briefly describe what was involved in preparing the Engineering Report for the water operations in this rate proceeding?
- A. After reviewing Pineview' rate application, I physically inspected the water system to evaluate its operations and to determine which plant items were or were not used and useful. I contacted the Arizona Department of Environmental Quality ("ADEQ") to determine if the system was in compliance with ADEQ requirements. I obtained information from Pineview regarding water testing and water usage and analyzed that information. Based on this data, I made Staff's evaluations and prepared the Engineering Report attached as Exhibit 1.

Q. Please describe the information contained in Exhibit-1.

A. Exhibit 1 is the Engineering Report for Pineview's operation. This Report is divided into three general sections: 1) Executive Summary; 2) Engineering Report Discussion, and 3) Engineering Report Exhibits. The Discussions section can be further divided into twelve subsections: A) Purpose of Report; B) Location of System; C) Description of System; D) Arsenic; E) Water Usage; F) Growth Projection; G) ADEQ Compliance; H) Arizona Department of Water Resources ("ADWR") Compliance; I) Arizona Corporation Commission Compliance; J) Water Testing Expenses; K) Depreciation Rates; and L) Other Issues. These subsections provide information about the Pineview water system.

CONCLUSIONS AND RECOMMENDATIONS

- Q. What are Staff's conclusions and recommendations regarding Pineview's operation?
- A. Based upon Staff's engineering evaluation of Pineview's operation, Staff concludes the following about the Company:
 - 1) According to the Utilities Division Compliance Section, the Company has no outstanding ACC compliance issues;

with its new rate application.

next rate case. If the Company finds that water loss cannot be reduced to less than 10 percent

before the next rate case, the Company shall submit a detailed cost analysis and explanation

demonstrating why a water loss reduction to less than 10 percent is not cost effective, along

Staff's engineering analysis of the Pineview system, Staff has adjusted this estimate to

The Company has estimated its total new construction cost to be \$730,978. Based on

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\$577,578 to remove excess plant capacity that is not needed to meet expected demand within the foreseeable future.

decision in this matter.

- Staff observed the control panel for Well No. 2 had been damaged by lightning. According to the Company, lightning damaged this equipment in the summer of 2004. The Company has been manually operating this well since then. The Company's estimated repair cost is \$24,000. Staff believes the repair is urgently needed and finds the Company's cost estimate reasonable. Staff recommends that the Company undertake the needed repairs immediately and file a compliance status report indicating completion of this work with Docket Control under this same docket number within six months of the effective date of the
- 7) Staff also observed a soil compactor stored at the Site of Well Nos. 3A & 3B that, according to the Company, was purchased in September 2003. The Company paid \$1,325 for this equipment which is not listed in the Plant Additions. Staff recommends that \$1,325 be listed in Account No. 345 (Power Operated Equipment) in 2003.
- 8) The Company purchased land to drill three new wells in the future. This land is currently not being used by the Company. In addition, Staff believes that the Company's existing wells will provide an adequate source of water for the foreseeable future. Staff recommends that \$50,750 (land expense) be removed from plant in service.
- 9) Engineering fees and other expenses associated with the construction of the proposed two million gallon storage tank were included in the Company's filing as plant in service. This tank has not yet been constructed, therefore Staff recommends that an adjustment be made to remove these amounts from plant in service.

Testimony of Dorothy Hains Docket No. W-01676A-04-0500 Page 8

Q. Does this conclude your pre-filed testimony?

A. Yes, it does.

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EXHIBIT 1

ENGINEERING REPORT FOR PINEVIEW WATER COMPANY

BY DOROTHY HAINS

December, 2004



Engineering Report For Pineview Water Company By Dorothy Hains Docket No. W-01676A-04-0500 (Rate) Docket No. W-01676A-04-0463 (Financing) November 16, 2004

EXECUTIVE SUMMARY

Recommendations:

- 1. Water testing expenses are based upon participation in the Arizona Department of Environmental Quality ("ADEQ") Monitoring Assistance Program ("MAP"). Annual testing expenses should be adjusted to \$4,852. (See §J and Table 9 for discussion and details.)
- 2. Staff recommends that in the future Pineview Water Company ("Pineview" or "Company") use depreciation rates approved by the National Association of Regulatory Utility Commissioners ("NARUC") category, as delineated in Exhibit 6. (See §K and Exhibit 6 for a discussion and a tabulation of the recommended rates.)
- 3. Staff recommends accepting the Company's proposed service line and meter installation charges. (See §L of report for discussion and details.)
- 4. Staff recommends that the Company reduce its water loss to less than 10 percent before the next rate case. If the Company finds that water loss cannot be reduced to less than 10 percent before the next rate case, the Company shall submit a detailed cost analysis and explanation demonstrating why a water loss reduction to less than 10 percent is not cost effective, along with its new rate application. (See §E of report for discussion and details.)
- 5. The Company has estimated its total new construction cost to be \$730,978. Based on Staff's engineering analysis of the Pineview system, Staff has adjusted this estimate to \$577,578 to remove excess plant capacity that is not needed to meet expected demand within the foreseeable future. (See §L of the report for discussion and details.)
- 6. Staff observed the control panel in the Site of Well No. 2 had been damaged by lightning in summer 2004. The Company has been manually operating this well. The Company estimates the repair cost is \$24,000. Staff believes the repair is urgently needed and finds the Company's cost estimate reasonable. Staff recommends that the Company undertake the

needed repairs immediately and file a compliance status report indicating completion of this work with Docket Control under this same docket number within six months after the decision in this matter becomes effective. (See §L of the report for discussion and details.)

- 7. Staff also observed a soil compactor stored at the Site of Well Nos. 3A & 3B that was purchased in September 2003. The Company paid \$1,325 for this equipment which has not listed in the Plant Additions. Staff recommends that \$1,325 be listed in Account No. 345 (Power Operated Equipment) in 2003. (See §L of report for discussion and details.)
- 8 Staff recommends that \$50,750 (land expense) be removed from plant in service. (See §L of the report for discussion and details.)
- 9. Engineering fees and other expenses associated with the construction of the proposed two million gallon storage tank were included in the Company's filing as plant in service. This tank has not yet been constructed, therefore Staff recommends that an adjustment be made to remove these amounts from plant in service. (See §L of the report for discussion and details.)

Conclusions:

- 1. According to the Utilities Division Compliance Section, the Company has no outstanding ACC compliance issues.
- 2. The Company is not in any Arizona Department of Water Resources ("ADWR") Active Management Area and is not in subject to ADWR monitoring and reporting requirements.
- 3. ADEQ has determined that Pineview Water Co. is currently delivering water that meets water quality standards required by Arizona Administrative Code, Title 18, Chapter 4.

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ENGINEERING REPORT FOR PINEVIEW WATER COMPANY, INC. DOCKET NO. W-01676A-04-0500 (RATES) DOCKET NO. W-01676A-04-0463 (FINANCING)

A. PURPOSE OF REPORT

This report was prepared in response to the application for a rate increase by Pineview Water Company. ("Pineview" or "Company"). An inspection and evaluation of the Company's water system was conducted by Dorothy Hains, Utilities Engineer, in the accompaniment of Ronald McDonald, the Company's water system Manager on September 21, 2004.

B. LOCATION OF SYSTEM

The Company serves an area which is southeast of the Town of Show Low in Navajo County. Exhibit 1 shows the approximate two and one-half square miles of its certificated area, and Exhibit 2 shows the location of the Company within Navajo County.

C. DESCRIPTION OF SYSTEM

I. System Description

The Company owns and operates a water system that consists of four wells, three storage tanks and a distribution system serving approximately 936 metered customers. Exhibit 3 is a schematic drawing of the water system; a detailed listing of the Company's water system facilities is as follows:

Table 1. Active Well Data

Well Name	ADWR ID No.	Pump HP	Yield (in GPM)	Casing Size (in inch) & Depth (in ft)	(Meter Size inch)	Year drilled
Well #2	55-608847	30	115	6" x 660'	3	1962
Well #3A	55-608846	40	115	8" x 800'	3	1978
Well #3B	55-565467	40	130	10" x 820'	3	1997
Well #4	55-521710	40	113	8" x 750'	3	1988
		TOTAL:	473			

Table 2. Abandoned Well Data

Well Name	ADWR ID No.	Location	Year drilled	Year abandoned
Well #1	N/A	Lot # 6447 Lower Ridge Rd	1957 (est.)	1997

Table 3. Storage Tanks

Capacity (Gallons)	Quantity	Location
250,000	1	On Well #3A & 3B Site
250,000	1	On Well #4 Site
40,000	1	On Well #2 Site
40,000*	1	One Well #1 Site
Totals: 540,000 gallons		

^{*:} This tank was abandoned in 1997.

Table 4. Pressure Tanks

Capacity (Gallons)	Quantity	
5,000**	1	
5,000	3	
Totals: 15,000 gallons		

^{**:} This pressure tank on Well No. 1 Site was abandoned in 1997.

Table 5. Distribution Mains

Diameter (inches)	Material	Length (feet)
2	polyvinyl chloride ("PVC")	6,560
2	steel	150
3	Asbestos Cement Pipe ("ACP"),	760
4	PVC	18,630
4	Asbestos Cement ("AC")	23,700
6	PVC	72,338
6	AC	3,750
8	PVC	12,268
12	PVC	7,523

Table 6. Meters

Size (inches)	Quantity
5/8 x 3/4	832
3/4	66
1	11
1½	5
2	21
3 (Comp)	1
Total	936

II. System Analysis

The system has adequate production and storage capacity to support the existing customer base.

D. ARSENIC

The U.S. Environmental Protection Agency ("EPA") has reduced the arsenic maximum contaminant level ("MCL") in drinking water from 50 micrograms per liter (" $\mu g/l$ ") or parts per billion ("ppb") to 10 $\mu g/l$. The date for compliance with the new MCL is January 23, 2006. The most recent lab analysis provided by the Company indicates that the arsenic levels are 3 $\mu g/l$ which is below the new arsenic MCL.

E. WATER USAGE

Table 7 summarizes water usage in the Company's Certificate of Convenience and Necessity ("CC&N") area. Attached as Exhibit 4, is a graph that shows water consumption data in gallons per day per connection for the period of January 2003 through December 2003.

Month	Number of	Water Sold	Water	Water	Daily Average
	Customers	(gallons)	pumped	purchased	(gal/day/customer)
			(gallons)	(gallons)	
Jan 03	899	5,455,249	5,905,400	0	196
Feb 03	903	4,849,644	5,635,200	0	192
Mar 03	849	2,938,300	4,761,698	0	112
Apr 03	902	5,618,610	5,938,600	0	208
May 03	905	8,959,196	9,536,000	0	319
Jun 03	905	12,380,777	12,875,900	0	456
Jul 03	953	13,158,410	14,831,400	0	445
Aug 03	922	7,739,551	8,857,900	0	271
Sep 03	931	7,968,056	7,950,700	0	285
Oct 03	934	6,338,574	7,647,200	0	219
Nov 03	935	5,979,921	6,910,600	0	213
Dec 03	936	4,577,589	6,360,800	0	158
Total		85,963,877	97,211,398	0	
Average					256

Table 7. Water Usage

I. Water Sold

Based on information provided by the Company, during this period, the Company experienced a daily average use of 256 gallons per day ("gpd") per customer, a high use of 456 gpd per customer and a low use of 112 gpd per customer. The highest total monthly use occurred in July, when 14,831,400 gallons were sold to 953 customers. The lowest total monthly use occurred in March, when 2,938,300 gallons were sold to 849 customers.

II. Non-account Water

Non-account water should be 10 percent or less and never more than 15 percent. It is important to be able to reconcile the difference between water sold and the water produced by the source. A water balance will allow a water company to identify water and revenue losses due to leakage, theft, and flushing. It is important to be able to reconcile the difference between water sold and the water produced by the source. Non-account water for Pineview was calculated to be 11.6 percent for the period beginning in January 2003 and ending in December 2003.

Staff recommends that the Company reduce its water loss to less than 10 percent before the next rate case. If the Company finds that water loss cannot be reduced to less than 10 percent before the next rate case, the Company shall submit a detailed cost analysis and explanation demonstrating why a water loss reduction to less than 10 percent is not cost effective, along with its new rate application.

F. GROWTH PROJECTION

Exhibit 5 details total actual and projected growth for the system using linear regression analysis. The number of service connections was obtained from annual reports submitted to the Commission by Pineview. Based on the service meter data contained in these reports, the number of customers increased from 765 at the end of 1995 to 937 by the end of 2003, with an average growth rate of 21 customers per year. Based on the linear regression analysis, the Company could have approximately 1,037 customers by the end of 2008. The following table summarizes actual and projected growth in the Company's existing certificated service area.

Table 8. Actual and Projected Growth

Year	Nos. of Customers	
1995	765	Reported
1996	765	Reported
1997	826	Reported
1998	826	Reported
1999	863	Reported
2000	867	Reported
2001	889	Reported
2002	899	Reported
2003	937	Reported
2004	953	Estimated
2005	974	Estimated
2006	995	Estimated
2007	1,016	Estimated
2008	1,037	Estimated

G. ARIZONA DEPARTMENT OF ENVIONMENTAL QUALITY ("ADEQ") COMPLIANCE

Staff received a compliance status report from ADEQ dated May 25, 2004, in which ADEQ stated that it has determined that the Company is currently delivering water that meets the water quality standards required by Arizona Administrative Code, Title 18, Chapter 4.

H. ARIZONA DEPARTMENT OF WATER RESOURCES ("ADWR") COMPLIANCE

Pineview is not in any ADWR Active Management Area. Therefore, the Company is not required to comply with ADWR's monitoring and reporting requirements.

I. ARIZONA CORPORATION COMMISSION ("ACC") COMPLIANCE

According to the Utilities Division Compliance Section, the Company has no outstanding ACC compliance issues.

J. WATER TESTING EXPENSES

Pineview is subject to mandatory participation in the ADEQ Monitoring Assistance Program ("MAP"). Staff calculated the testing costs based on the following assumptions:

- 1. MAP will do baseline testing on everything except copper, lead, nitrates, and bacteria.
- 2. ADEQ testing is performed in 3-year compliance cycles. Therefore, monitoring costs are estimated for a 3-year compliance period and then presented as a pro forma expense on an annualized basis.
- 3. MAP fees were calculated from the ADEQ MAP rules.
- 4. All monitoring expenses are based on Staff's best knowledge of lab costs and methodology and two points of entry.
- 5. The estimated water testing expenses represent a <u>minimum</u> cost based on no "hits" other than lead and copper, and assume compositing of well samples. If any constituents were found, then the testing costs would dramatically increase.

Table 9 shows the estimated annual monitoring expense, assuming participation in the MAP

program. Water testing expenses should be adjusted to the annual expense amount shown in Table 9, which is \$4,852.

Table 9 Water Testing Cost

Monitoring – 4 wells (Tests per 3 years, unless noted.)	Cost per test	No. of tests per 3 years	Total 3 year cost	Annual Cost
Bacteriological – monthly	\$15	144	\$2,160	\$720
Inorganics (& secondary)	\$240	12	\$2,880	\$960
Radiochemical – (1/4 yr)	\$55			MAP
IOC's, SOC's, VOC's				MAP
Nitrites	\$15			MAP
Nitrates – annual	\$25	12	\$300	\$100
Asbestos – per 9 years	\$180		-	MAP
Lead & Copper – annual	\$25	30	\$750	\$250
MAP fees (annual)				\$2,791.96
Total				\$4,852

K. DEPRECIATION RATES

Staff has developed typical and customary depreciation rates within the range of anticipated equipment life. These rates are presented in Exhibit 6, and should be used to calculate the annual depreciation expense for the Company in this application. It is recommended that the Company use depreciation rates approved by the National Association of Regulatory Utility Commissioners ("NARUC") category, as delineated in Exhibit 6 in the future.

L. OTHERS

I. Service Line and Meter Installation Charges

The Company is proposing to revise its meter and service line installation charges. These charges are refundable advances and the Company's proposed charges are within Staff's experience of what are reasonable and customary charges. Therefore, Staff accepts the Company's proposed meter and service line installation charges.

Table 10. Service Line and Meter Installation Charges

Meter Size	Current Charges	Proposed Charges	Staff Recommendation
5/8 x3/4-inch	\$400	\$475	\$475
3/4-inch	\$440	\$550	\$550
1-inch	\$500	\$650	\$650
1-½-inch	\$715	\$900	\$900
2-inch (turbine)	\$1,170	\$1,550	\$1,550
2-inch (compound)	\$1,700	\$2,300	\$2,300
3-inch (turbine)	\$1,585	\$2,200	\$2,200
3-inch (compound)	\$2,190	\$3,100	\$3,100
4-inch (turbine)	\$2,540	\$3,400	\$3,400
4-inch (compound)	\$3,215	\$4,400	\$4,400
6" (turbine)	\$4,615	\$6,200	\$6,200
6-inch (compound)	\$6,270	\$7,900	\$7,900
8-inch (turbine)	\$6,655	\$8,850	\$7,543
8-inch (compound)	\$7,040	\$9,350	\$7,980
10-inch (turbine)	\$8,495	\$11,300	\$9,629
10-inch (compound)	\$9,950	\$13,200	\$11,278

II. Financing

In June 2004, the Company filed a financing application (Docket No. W-01676A-04-0463) seeking approval to borrow \$730,978. The Company proposes to use these funds to install (1) a two million gallon storage tank, (2) a new well, (3) electrical work for Well site Nos.3 and 4; and (4) piping to convert the existing system from pressure flow to gravity flow. The Company proposed to use the revenues collected from off-site hookup fees to pay back a portion of this debt.

The Company has estimated its total construction cost to be \$730,978. Based on Staff's engineering analysis of the Pineview system, Staff has adjusted this estimate to \$577,578 to remove excess plant capacity that is not needed to meet expected demand within the foreseeable future. The itemized costs are listed in the table below:

Facility	Description	Company's cost estimate (\$)	For financing application Staff Adjusted (\$)
Storage Tank	One 2,000,000 gallon storage tank	304,150	$204,750^2$
Transmission Line	5,100' of 12" PVC	155,369	155,369
Additional Wells	1.5 Acres of land	54,000	O^1
	800 feet deep, 12- inch diameter well	38,000	38,000
	One 130 gpm, 40- HP pump	18,037	18,037
	One pump house with chlorination system	16,570	16,570
	Site preparation/ access road	17,600	17,600
	Electricity/ control panel	18,420	18,420
	Fencing	3,120	3,120
	Pressure & gravity water main extension	30,660	30,660
	Engineering & design	5,422	5,422
	Controls & Electrical work for Well #3 site & Well #4 site	22,370	22,370
	Engineering & design (to control pressures @ various locations with the system)	7,500	7,500
	Pressure reducing valves	39,760	39,760
Total		730,978	577,578

- Notes: 1. The Company proposes to purchase land to drill three new wells sometime in the future. Staff believes that the Company's existing wells will provide an adequate source of water for the foreseeable future.
 - 2. Based on the projected growth rate, by 2024 there will be an estimated 1,437 customers in the Company's CC&N area. Based on Staff's engineering analysis one million gallons of additional storage capacity should be more than adequate to serve existing and future customers. Therefore, Staff adjusted the projected cost to reflect the addition of a one million gallon storage tank.

Staff believes that the Company's estimated costs, with Staff adjustments, are reasonable and appropriate. However, Staff has not made a determination of the capital improvements as "used and useful" at this time, but defers this determination until the Company files its next rate application.

III. **Curtailment Tariff**

The Company has an existing curtailment tariff that was approved in Decision No. 66176.

IV. Off-site Hookup Fee Charges

The Commission approved the Company's Off-site Hookup Fee tariff in Decision No. 67275, dated October 5 2004.

V. Items Found During Staff's Inspection

- Staff observed the control panel in the Site of Well No. 2 had been damaged by lightning in A. summer 2004. The Company has been manually operating this well. The Company estimates the repair cost is \$24,000. Staff believes the repair is urgently needed and finds the Company's cost estimate reasonable. Staff recommends that the Company undertake the needed repairs immediately and file a compliance status report indicating completion of this work with Docket Control under this same docket number within six months after the decision in this matter becomes effective.
- B. Staff also observed a soil compactor stored at the Site of Well Nos. 3A & 3B that was purchased in September 2003. The Company paid \$1,325 for this equipment which has not listed in the Plant Additions. Staff recommends that \$1,325 be listed in Account No. 345 (Power Operated Equipment) in 2003.
- C. Engineering fees and other expenses associated with the construction of the proposed two million gallon storage tank were included in the Company's filing as plant in service. This tank has not yet been constructed, therefore Staff recommends that an adjustment be made to remove these amounts from plant in service.

D. The Company purchased 3.05 acres for \$105,000 in 2000 and sold 1.55 acres for \$54,250 in 2002. The remaining 1.5 acres of land expense of \$50,750 is listed as plant in service. According to the Company, this 1.5 acres of land was to be used for the construction of an additional storage tank and wells. Neither the wells nor the additional storage tank have been constructed. Furthermore, with the addition of the new wells and storage tank proposed in the financing, the system will have adequate storage and production capacity. These additional wells and storage tank will not be needed, therefore, Staff finds this land not used and useful. Staff recommends that \$50,750 be removed from plant in service.

EXHIBIT 1

Pineview' Certificate Service Area

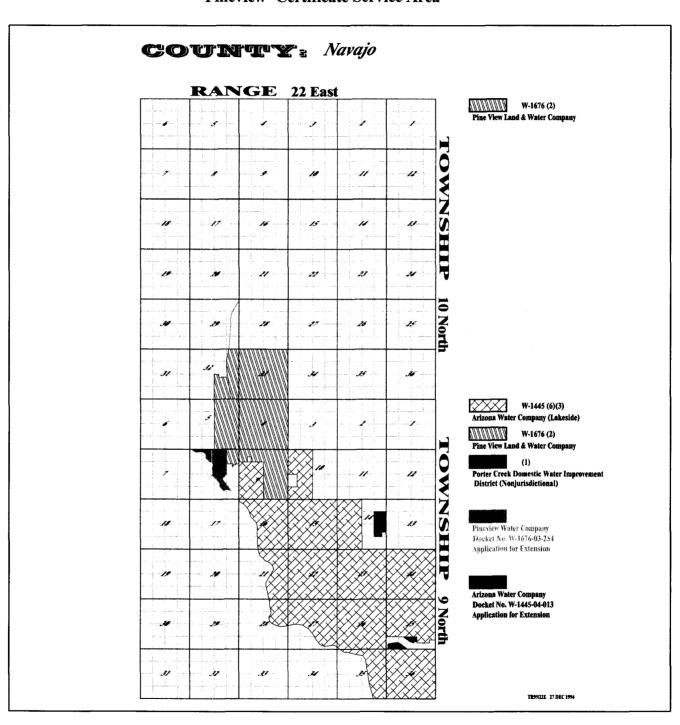


EXHIBIT 2.

LOCATION OF PINEVIEW WATER COMPANY SERVICE AREA

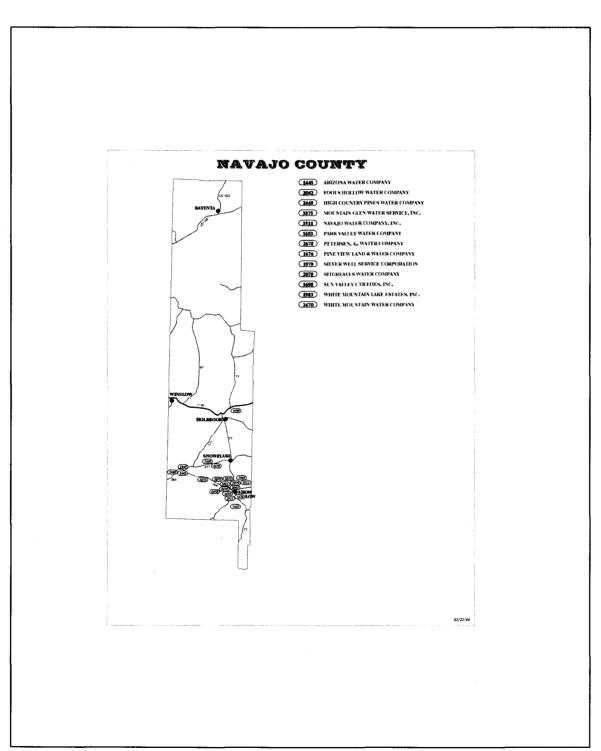


EXHIBIT 3.

SYSTEMATIC DRAWING

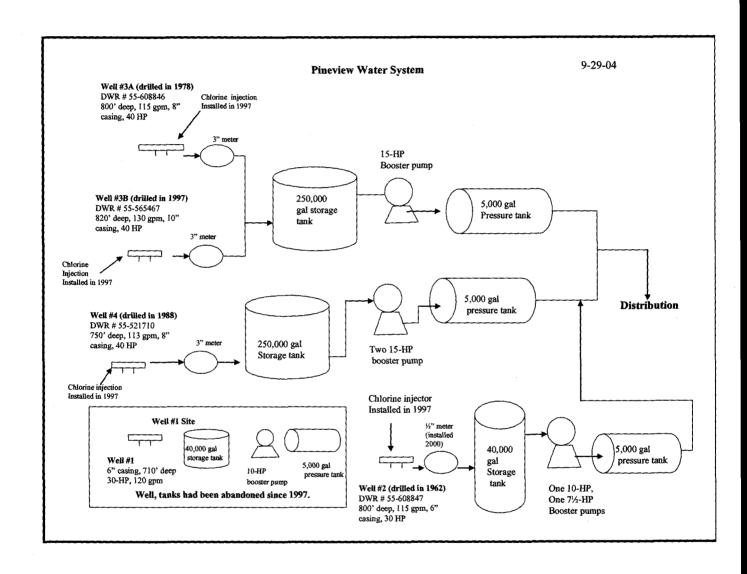


EXHIBIT 4

WATER USAGE ON THE PINEVIEW WATER COMPANY SERVICE AREA

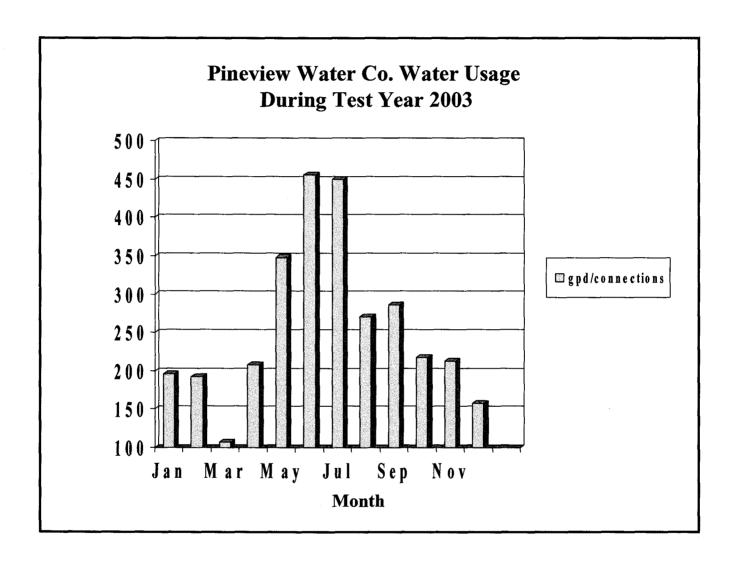


EXHIBIT 5

ACTUAL AND PROJECTED GROWTH IN PINEVIEW WATER COMPANY SERVICE AREA

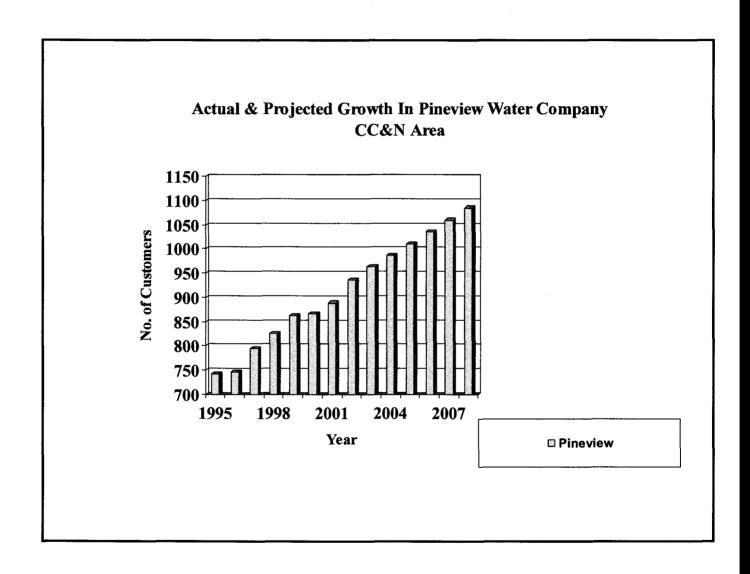


Exhibit 6
Water Depreciation Rates

Acct. No.	Depreciable Plant	Average Service Life (Years)	Annual Accrual Rate (%)
304	Structures & Improvements	30	3.33
305	Collecting & Impounding Reservoirs	40	2.50
306	Lake, River, Canal Intakes	40	2.50
307	Wells & Springs	30	3.33
308	Infiltration Galleries	15	6.67
309	Raw Water Supply Mains	50	2.00
310	Power Generation Equipment	20	5.00
311	Pumping Equipment	8	12.5
320	Water Treatment Equipment	179	
320.1	Water Treatment Plants	30	3.33
320.2	Solution Chemical Feeders	5	20.0
330	Distribution Reservoirs &		
	Standpipes		
330.1	Storage Tanks	45	2.22
330.2	Pressure Tanks	20	5.00
331	Transmission & Distribution Mains	50	2.00
333	Services	30	3.33
334	Meters	12	8.33
335	Hydrants	50	2.00
336	Backflow Prevention Devices	15	6.67
339	Other Plant & Misc Equipment	15	6.67
340	Office Furniture & Equipment	15	6.67
340.1	Computers & Software	5	20.00
341	Transportation Equipment	5	20.00
342	Stores Equipment	25	4.00
343	Tools, Shop & Garage Equipment	20	5.00
344	Laboratory Equipment	10	10.00
345	Power Operated Equipment	20	5.00
346	Communication Equipment	10	10.00
347	Miscellaneous Equipment	10	10.00
348	Other Tangible Plant		

